

CATFORD ENGINEERING PRODUCTS

Jamestown
SA 5491

All Prices Excluding GST

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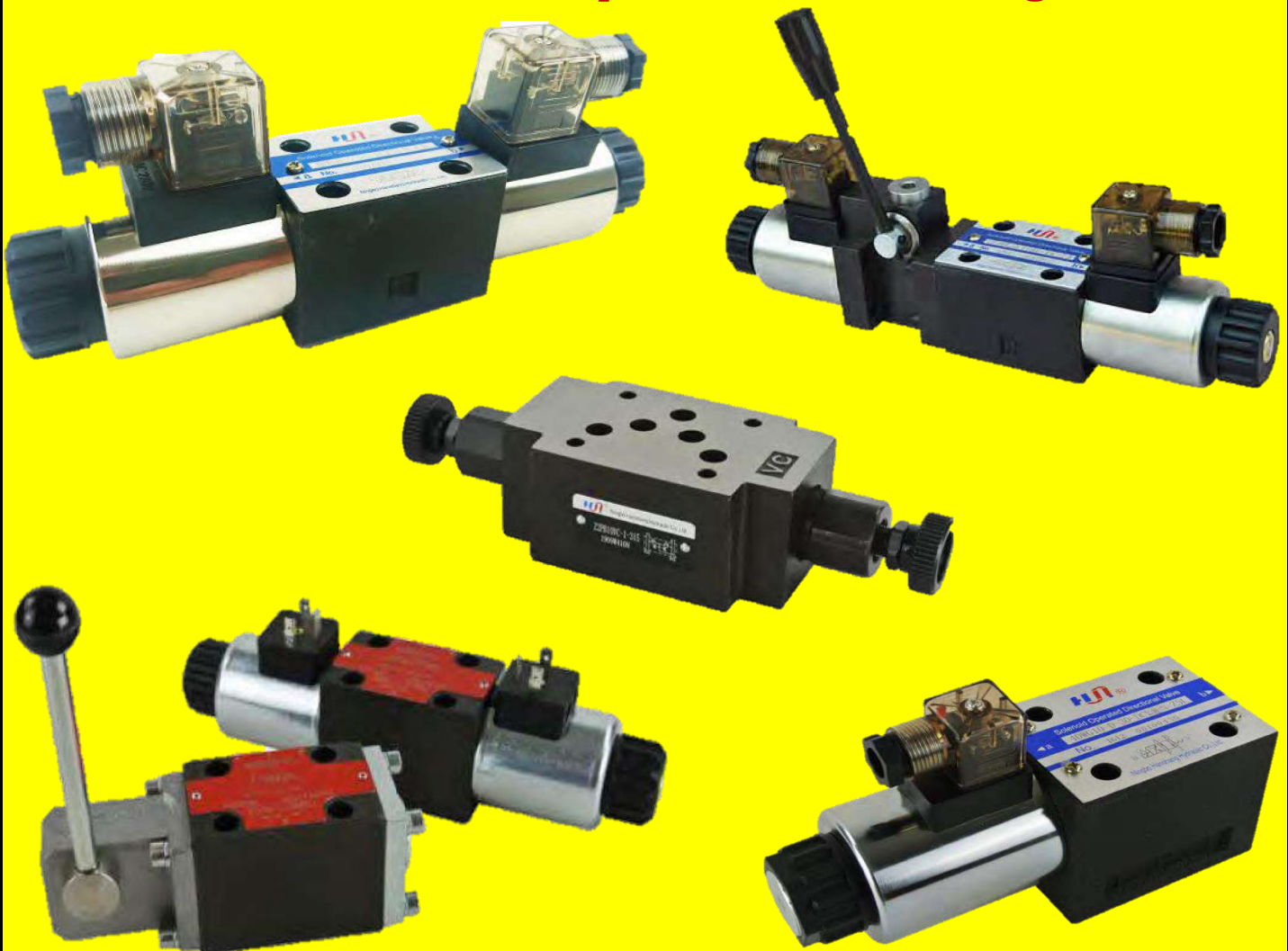
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Cetop Valves, Subplates & Manifolds

*Cetop 3, 5 & 7 Solenoid Valves *Manual Solenoid

*Subplates *Manifolds *Coils *DIN *Plugs

*Sandwich *Valves *Endplates *Relief Cartridges





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Due to fluctuations in the Australian dollar and the economic climate, please be advised that all prices are subject to change.
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All prices stated within are exclusive of GST
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Cetop Valves, Subplates & Manifolds

CATFORD Jamestown
SA 5491
CE ENGINEERING
PRODUCTS

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CETOP & MODULAR VALVES, SUBPLATES & MANIFOLDS



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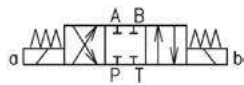
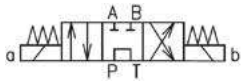
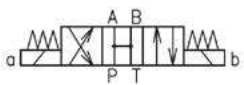
Cartridge Relief
Valves

312

TECH DATA

Stackable Directional Control Valve Solenoid Operated (HDF Series)

Coils not included in the price

Part #	List Price \$	Max Pressure	Max Flow	Ports	Transition	Diagram
HDF-ES-1C	455.00	250 bar	20 L/min	1/4" BSPP	Closed	
HDF-ES-1LL	421.00	250 bar	20 L/min	1/4" BSPP	Closed	
HDF-ES-4C	532.00	250 bar	20 L/min	1/4" BSPP	Open	
HDF-ES-3C	455.00	250 bar	20 L/min	1/4" BSPP	A + B to T	
HDF-ES-0C	455.00	250 bar	20 L/min	1/4" BSPP	Open	
HDF-ES-0ML	421.00	250 bar	20 L/min	1/4" BSPP	Open	

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TECH DATA

Coils (to suit HDF Series)

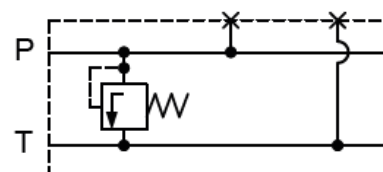
Part #	List Price \$	Voltage	Amp Draw	Core Size	Length	Connector
B01-012C	72.00	12v DC	2.8 amp	13.8mm	41.2mm	DP-LED-DC
B01-024C	72.00	24v DC	1.4 amp	13.8mm	41.2mm	DP-LED-DC
B01-220R	72.00	220v RAC	0.17 amp	13.8mm	41.2mm	DP-REC

TECH DATA

Stackable Pressure Relief Valve (to suit HDF Series)

Part #	List Price \$	Max Pressure	Max Flow	Pressure Range
AMF-MOP-25	272.00	250 bar	20 L/min	100-250 bar

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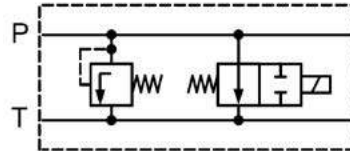


TECH DATA

Stackable Pressure Relief Valve w/ Electric Bypass (to suit HDF Series)

Part #	List Price \$	Max Pressure	Max Flow	Pressure Range	Voltage	
AMF-MOP/25-EV20-012C/10	567.00	250 bar	20 L/min	100-250 bar	12v DC	NEW
AMF-MOP/25-EV20-024C/10	567.00	250 bar	20 L/min	100-250 bar	24v DC	NEW

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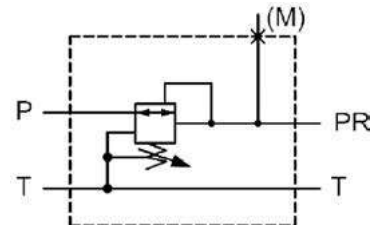


TECH DATA

Stackable Direct Acting Pressure Reducing Valve (to suit HDF Series)

Part #	List Price \$	Max Pressure	Max Flow	Pressure Range
AMF-RO-P/6.3/10	582.00	320 bar	20 L/min	16-63 bar
AMF-RO-P/16/10	582.00	320 bar	20 L/min	40-160 bar
AMF-RO-P/20/10	582.00	320 bar	20 L/min	50-210 bar

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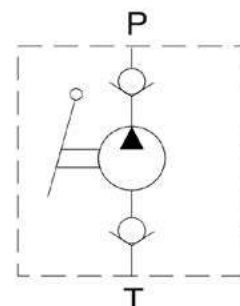


TECH DATA

Stackable Hand Pump (to suit HDF Series)

Part #	List Price \$	Max Pressure	Displacement	Material
AMF-HP2	400.00	200 bar	2cc	Aluminium valve body

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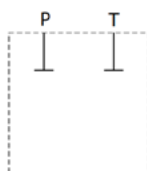


TECH DATA

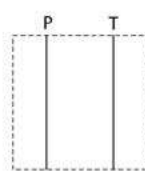
Stackable Directional Control Valve Accessories (HDF Series)

Part #	List Price \$	Material	Port	Description
PD1-03/32-0	149.00	Steel	-	End plate
PD1-03/32-5	206.00	Steel	3/8" BSPP	Remote mount plate port
MAF-KIT-2	108.00	Aluminium	-	Remote mount mounting bracket
GE-01	62.00	Aluminium	-	Manual override knob for HDF valves

PD1-03



32-0



32-5

MAF-KIT-2



GE-01



TECH DATA

Stackable Direction Control Valve Solenoid Operated (CS Series)

Coils are included in the price

Part #	List Price \$	Transition	Voltage	Max Flow	Max Pressure		Ports	Diagram
					P, A, B	T		
CS-3C2-03-D12	344.00	Closed	12v	20 L/min	250 bar	210 bar	1/4" BSPP	
CS-3C2-03-D24	344.00	Closed	24v	20 L/min	250 bar	210 bar	1/4" BSPP	
CS-3C4-03-D12	344.00	A + B open to T	12v	20 L/min	250 bar	210 bar	1/4" BSPP	
CS-3C4-03-D24	344.00	A + B open to T	24v	20 L/min	250 bar	210 bar	1/4" BSPP	
CS-C3B-03-D12	323.00	Open	12v	20 L/min	250 bar	210 bar	1/4" BSPP	
CS-C3B-03-D24	323.00	Open	24v	20 L/min	250 bar	210 bar	1/4" BSPP	

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TECH DATA

Coils (to suit CS Series)

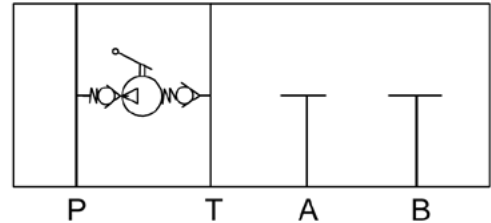
Part #	List Price \$	Voltage	Amp Draw	Core Size	Length	Connector
CS-12V	79.00	12v DC	2.8 amp	13.2mm	37mm	DP-LED-DC
CS-24V	79.00	24v DC	1.4 amp	13.2mm	37mm	DP-LED-DC
CS-A22	172.00	220v RAC	0.17 amp	13.2mm	37mm	DP-REC

TECH DATA

Stackable Hand Pump (to suit CS Series)

Part #	List Price \$	Max Pressure	Displacement	Material	
FK0002B-CHP10-4	736.00	250 bar	4cc	Aluminium valve body	NEW

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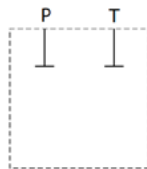


TECH DATA

Stackable Directional Control Valves Accessories (CS Series)

Part #	List Price \$	Material	Port	Description
T0407	183.00	Aluminium	-	End plate
T0407-PT	183.00	Aluminium	9/16" UNO	Remote Mount plate port
MAF-KIT-2	108.00	Aluminium	-	Remote mount mounting bracket
CS-03-M	60.00	Aluminium	-	Manual override knob for CS valves

T0407



TD407



TD407-PT

MAF-KIT-2



CS-03-M



TECH DATA

Stackable Directional Control Valve Bolt Kits

Part #	List Price \$	Description
VIT-HDF-M6X55	16.00	Bolt Kit - 1 Section HDF/CS Valve
VIT-HDF-M6X100	66.00	Bolt Kit - 2 Section HDF/CS Valve
VIT-HDF-M6X133	78.00	Bolt Kit - 3 Section HDF/CS Valve
VIT-HDF-M6X163	79.00	Bolt Kit - 4 Section HDF/CS Valve
VIT-HDF-M6X194	83.00	Bolt Kit - 5 Section HDF/CS Valve
VIT-HDF-M6X224	84.00	Bolt Kit - 6 Section HDF/CS Valve
VIT-HDF-M6X256	89.00	Bolt Kit - 7 Section HDF/CS Valve
VIT-HDF-M6X287	93.00	Bolt Kit - 8 Section HDF/CS Valve



Cetop 3 Directional Control Valve Solenoid & Lever

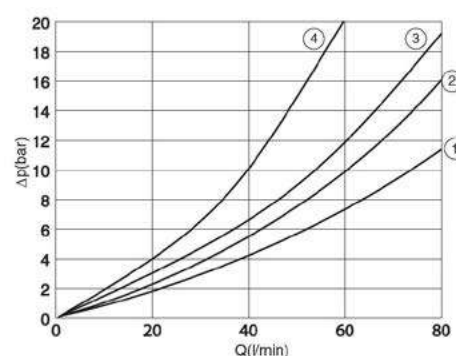
	SOLENOID	LEVER
Nominal Flow Rate	60 L/min	60 L/min
Maximum Recommended Flow	80 L/min	80 L/min
Maximum Nominal Pressure P,A,B	350 bar	320 bar
Maximum Pressure on T Port	210 bar	100 bar
Duty Cycle	100%	n/a
Bolts (single valve)	M5x45mm (tighten to 8Nm)	



Typical Diagrams

Typical rp - Q curves for valves HD3-ES-* in standard configuration. Measured with mineral oil at $32\text{mm}^2/\text{s}$ and $T=40^\circ\text{C}$.

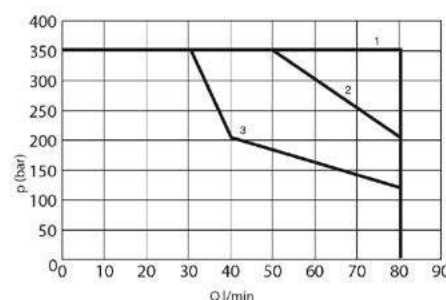
Spool	P-A	P-B	A-T	B-T	P-T
1C	1	1	2	2	-
4C	3	3	4	4	1
0C	1	1	2	2	1
3C	1	1	2	2	-
1LL	1	1	2	2	-
1LLb	1	1	2	2	-
1ML		1	2	-	-
4ML	4	-	4	-	2
0ML	-	1	2	-	1
3ML	1	-	2	-	-



Hydraulic Limit of Use

rp - Q characteristics limits for safe use of HD3-ES-* solenoid operated valves. Measured with mineral oil at $32\text{mm}^2/\text{s}$ and $T=40^\circ\text{C}$.

Spool	Limit	Spool	Limit
1C	1	1ML	1
4C	3	0ML	2
0C	2	1MLb	1
3C	2	1LLb	1
1LL	1	4MLb	3
3ML	2	0MLb	2
4ML	3	3MLb	2



HYDRAULIC FLUID

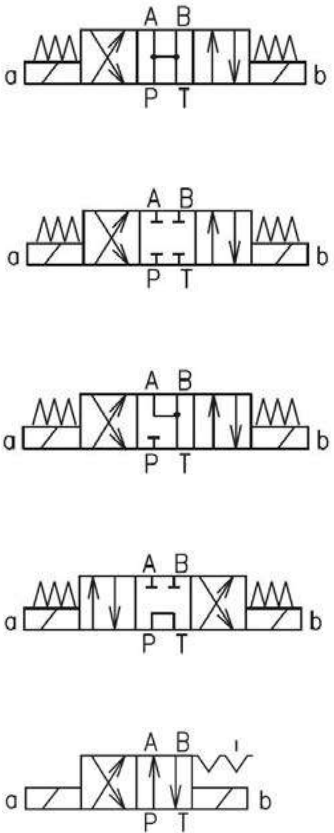
Seals and materials used on standard HD3-* valves are fully compatible with hydraulic fluids of mineral base, upgrading with antifoaming and antioxidising agents.

The hydraulic fluid must be kept clear and filtered to ISO4406 class 19/17/14, or better, and used in a recommended viscosity range from 10cSt to 60cSt.

TECH DATA

Cetop 3 Directional Control Valve - Solenoid Operated

Part #	List Price \$	Coil Voltage	Transition	Diagram
HD3-ES-0C-012C/10	506.00	12v DC	Open	H
HD3-ES-0C-024C/10	506.00	24v DC	Open	
HD3-ES-0C-230A/10	583.00	230v AC	Open	
HD3-ES-0C-115A/10	583.00	115v AC	Open	
HD3-ES-1C-012C/10	506.00	12v DC	Closed	E
HD3-ES-1C-024C/10	506.00	24v DC	Closed	
HD3-ES-1C-230A/10	583.00	230v AC	Closed	
HD3-ES-1C-115A/10	583.00	115v AC	Closed	
HD3-ES-3C-012C/10	506.00	12v DC	A & B to T	J
HD3-ES-3C-024C/10	506.00	24v DC	A & B to T	
HD3-ES-3C-230A/10	583.00	230v AC	A & B to T	
HD3-ES-3C-115A/10	583.00	115v AC	A & B to T	
HD3-ES-4C-012C/10	575.00	12v DC	Open	G
HD3-ES-4C-024C/10	575.00	24v DC	Open	
HD3-ES-4C-230A/10	652.00	230v AC	Open	
HD3-ES-4C-115A/10	652.00	115v AC	Open	
HD3-ES-1N-012C/10	616.00	12v DC	Closed	D
HD3-ES-1N-024C/10	616.00	24v DC	Closed	
HD3-ES-1N-230A/10	653.00	230v AC	Closed	
HD3-ES-1N-115A/10	653.00	115v AC	Closed	



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**DIN plugs & accessories
page 291-292**

TECH DATA

Cetop 3 Solenoid Valve Accessories

Part #	List Price \$	Description
T03-T	235.00	Soft shifting armature kit Reduces/eliminates hammer effect in the circuit. Shifting time when energised 300-500ms (versus 30-50ms on standard valve).
KIT-03K	72.00	Momentary manual override kit Extended emergency actuator pins permitting quick and easy "hand operation" of valves.



**Wiring
Harnesses
on page 78**

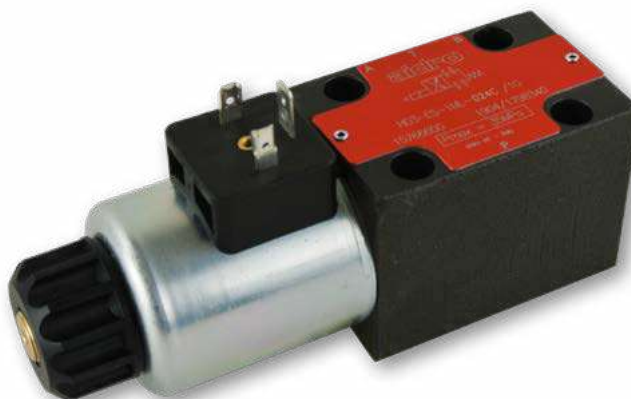
**TECH
DATA**

Cetop 3 Directional Control Valve - Solenoid Operated

Part #	List Price \$	Coil Voltage	Transition	Diagram
HD3-ES-0LL-012C/10	408.00	12v DC	Open	C
HD3-ES-0LL-024C/10	408.00	24v DC	Open	
HD3-ES-0LL-230A/10	446.00	230v AC	Open	
HD3-ES-0LL-115A/10	446.00	115v AC	Open	
HD3-ES-0ML-012C/10	408.00	12v DC	Open	HA
HD3-ES-0ML-024C/10	408.00	24v DC	Open	
HD3-ES-0ML-230A/10	446.00	230v AC	Open	
HD3-ES-0ML-115A/10	446.00	115v AC	Open	
HD3-ES-1LL-012C/10	408.00	12v DC	Closed	DA
HD3-ES-1LL-024C/10	408.00	24v DC	Closed	
HD3-ES-1LL-230A/10	446.00	230v AC	Closed	
HD3-ES-1LL-115A/10	446.00	115v AC	Closed	
HD3-ES-1LLb-012C/10	408.00	12v DC	Closed	DB
HD3-ES-1LLb-024C/10	408.00	24v DC	Closed	
HD3-ES-1LLb-230A/10	446.00	230v AC	Closed	
HD3-ES-1LLb-115A/10	446.00	115v AC	Closed	
HD3-ES-1ML-012C/10	408.00	12v DC	Closed	EA
HD3-ES-1ML-024C/10	408.00	24v DC	Closed	
HD3-ES-1ML-230A/10	446.00	230v AC	Closed	
HD3-ES-1ML-115A/10	446.00	115v AC	Closed	
HD3-ES-3ML-012C/10	408.00	12v DC	A & B to T	JA
HD3-ES-3ML-024C/10	408.00	24v DC	A & B to T	
HD3-ES-3ML-230A/10	446.00	230v AC	A & B to T	
HD3-ES-3ML-115A/10	446.00	115v AC	A & B to T	
HD3-ES-4ML-012C/10	478.00	12v DC	Open	GA
HD3-ES-4ML-024C/10	478.00	24v DC	Open	
HD3-ES-4ML-230A/10	517.00	230v AC	Open	
HD3-ES-4ML-115A/10	517.00	115v AC	Open	

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**DIN plugs &
accessories
page 291-292**



**TECH
DATA**

Cetop 3 Directional Control Valve - Lever Operated

Part #	List Price \$	Spool Positioner	Transition	Diagram
HD3-LO-0C/10	743.00	Spring return	Open	H
HD3-LO-0D/10	743.00	Detent	Open	
HD3-LO-1C/10	743.00	Spring return	Closed	E
HD3-LO-1D/10	743.00	Detent	Closed	
HD3-LO-3C/10	743.00	Spring return	A & B to T	J
HD3-LO-3D/10	743.00	Detent	A & B to T	
HD3-LO-4C/10	813.00	Spring return	Open	G
HD3-LO-4D/10	813.00	Detent	Open	
HD3-LO-0LL/10	743.00	Spring return	Closed	D
HD3-LO-0N/10	743.00	Detent	Closed	
HD3-LO-1LL/10	743.00	Spring return	Open	C
HD3-LO-1N/10	743.00	Detent	Open	

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**TECH
DATA**

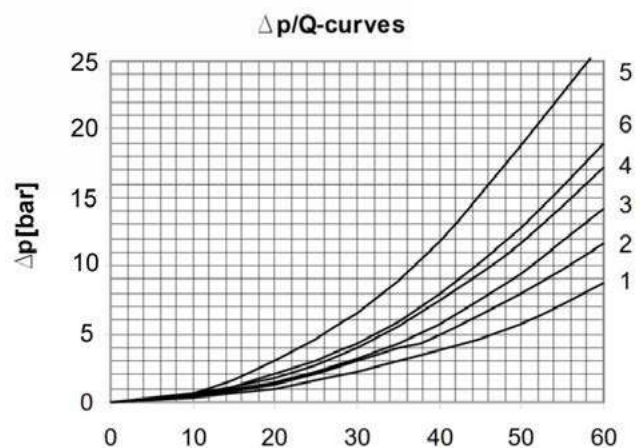
Cetop 3 Pneumatic Pilot Operated Valves

1/4" BSPP ports, maximum pressure on A,B,P 320 bar (see graph for flow rating)

Part #	List Price \$	Pilot Pressure	Max Pressure Tank	Transition	Symbol	Diagram
RH06016FNG	588.00	2-10 bar	160 bar	Closed	01	
RH06046FNG	588.00	2-10 bar	160 bar	A+B to T	04	
RH06026FNG	588.00	2-10 bar	160 bar	Open	02	
RH06006FNG	588.00	2-10 bar	160 bar	Open	00	
RH06116FNG	588.00	2-10 bar	160 bar	Open	11	



SYMBOL	CURVE				
	P>A	P>B	A>T	B>T	P>T
01	2	2	1	1	-
04	3	3	1	1	-
02	5	5	5	5	4
00	2	2	1	1	3
11	2	2	1	1	-



**TECH
DATA**

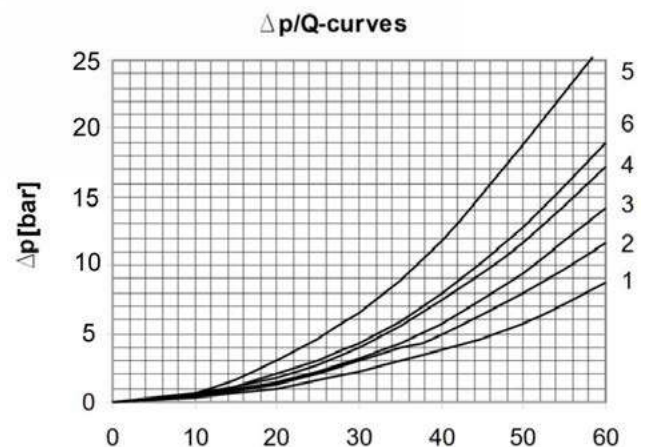
Cetop 3 Hydraulic Pilot Operated Valves

1/4" BSPP ports, maximum pressure on A,B,P 320 bar (see graph for flow rating)

Part #	List Price \$	Pilot Pressure	Max Pressure Tank	Transition	Symbol	Diagram
RH06012FNG	630.00	10-14.8 bar	160 bar	Closed	01	
RH06042FNG	630.00	10-14.8 bar	160 bar	A+B to T	04	
RH06022FNG	630.00	10-14.8 bar	160 bar	Open	02	
RH06002FNG	630.00	10-14.8 bar	160 bar	Open	00	
RH06112FNG	630.00	10-14.8 bar	160 bar	Open	11	



SYMBOL	CURVE				
	P>A	P>B	A>T	B>T	P>T
01	2	2	1	1	-
04	3	3	1	1	-
02	5	5	5	5	4
00	2	2	1	1	3
11	2	2	1	1	-



Cetop 3 Proportional Directional Control Valve - Solenoid Operated

	SOLENOID
Nominal Flow Rate	5, 16, 32 L/min
Maximum Nominal Pressure P _{A,B}	320 bar
Maximum Pressure on T Port	160 bar
Duty Cycle	100%
Bolts (single valve)	M5x45mm (tighten to 8Nm)



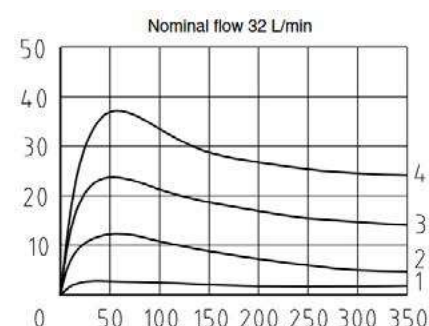
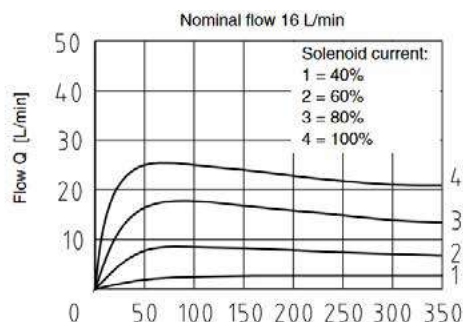
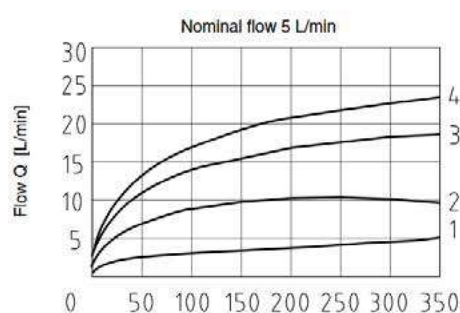
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Valves type HD3-PS are operated by proportional solenoids that are rated for an average maximum power of 13.5 watt.

The values of nominal maximum current are for coils type:

- R2 (2.3Ω): I max = 2.4amp
- R3 (4.5Ω): I max = 1.7amp
- R4 (13.4Ω): I max = 1.0amp
- R5 (18.6Ω): I max = 0.85amp

Currents to hydraulic proportional valves are normally supplied by an electronic driver based on PWM mode of operation, and capable of full control of minimum and maximum values of current for drivers type UED.
(See page 256 for UEDs)



HYDRAULIC FLUID

Seals and materials used on standard HD3-* valves are fully compatible with hydraulic fluids of mineral base, upgrading with antifoaming and antioxidising agents.

The hydraulic fluid must be kept clear and filtered to ISO4406 class 19/17/14, or better, and used in a recommended viscosity range from 10cSt to 60cSt.

TECH DATA

Cetop 3 Proportional Directional Control Valve - Solenoid Operated (P blocked, A,B,T connected)

Part #	List Price \$	Flow	Coil Voltage	Nominal Max. Current	Transition	Diagram
HD3-PS-305C-K-R2/10	1286.00	5 L/min, ΔP 10 bar	12v DC	2.4a / 2.3Ω	A & B to T	
HD3-PS-305C-K-R4/10	1286.00	5 L/min, ΔP 10 bar	24v DC	1.0a / 13.4Ω	A & B to T	
HD3-PS-3RC-K-R2/10	1191.00	16 L/min, ΔP 10 bar	12v DC	2.4a / 2.3Ω	A & B to T	
HD3-PS-3RC-K-R4/10	1191.00	16 L/min, ΔP 10 bar	24v DC	1.0a / 13.4Ω	A & B to T	
HD3-PS-3PC-K-R2/10	1191.00	32 L/min, ΔP 10 bar	12v DC	2.4a / 2.3Ω	A & B to T	
HD3-PS-3PC-K-R4/10	1191.00	32 L/min, ΔP 10 bar	24v DC	1.0a / 13.4Ω	A & B to T	
HD3-PS-305MLb-K-R2/10	1286.00	5 L/min, ΔP 10 bar	12v DC	2.4a / 2.3Ω	A & B to T	
HD3-PS-305MLb-K-R4/10	1286.00	5 L/min, ΔP 10 bar	24v DC	1.0a / 13.4Ω	A & B to T	
HD3-PS-3RMLb-K-R2/10	1191.00	16 L/min, ΔP 10 bar	12v DC	2.4a / 2.3Ω	A & B to T	
HD3-PS-3RMLb-K-R4/10	1191.00	16 L/min, ΔP 10 bar	24v DC	1.0a / 13.4Ω	A & B to T	
HD3-PS-3PMLb-K-R2/10	1191.00	32 L/min, ΔP 10 bar	12v DC	2.4a / 2.3Ω	A & B to T	
HD3-PS-3PMLb-K-R4/10	1191.00	32 L/min, ΔP 10 bar	24v DC	1.0a / 13.4Ω	A & B to T	
HD3-PS-305ML-K-R2/10	1286.00	5 L/min, ΔP 10 bar	12v DC	2.4a / 2.3Ω	A & B to T	
HD3-PS-305ML-K-R4/10	1286.00	5 L/min, ΔP 10 bar	24v DC	1.0a / 13.4Ω	A & B to T	
HD3-PS-3RML-K-R2/10	1191.00	16 L/min, ΔP 10 bar	12v DC	2.4a / 2.3Ω	A & B to T	
HD3-PS-3RML-K-R4/10	1191.00	16 L/min, ΔP 10 bar	24v DC	1.0a / 13.4Ω	A & B to T	
HD3-PS-3PML-K-R2/10	1191.00	32 L/min, ΔP 10 bar	12v DC	2.4a / 2.3Ω	A & B to T	
HD3-PS-3PML-K-R4/10	1191.00	32 L/min, ΔP 10 bar	24v DC	1.0a / 13.4Ω	A & B to T	

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DATA

Cetop 3 Proportional Directional Control Valve - Solenoid Operated (P,T,A,B blocked)

Part #	List Price \$	Flow	Coil Voltage	Nominal Max. Current	Transition	Diagram
HD3-PS-105C-K-R2/10	1286.00	5 L/min, ΔP 10 bar	12v DC	2.4a / 2.3Ω	Closed	E
HD3-PS-105C-K-R4/10	1286.00	5 L/min, ΔP 10 bar	24v DC	1.0a / 13.4Ω	Closed	
HD3-PS-1RC-K-R2/10	1191.00	16 L/min, ΔP 10 bar	12v DC	2.4a / 2.3Ω	Closed	
HD3-PS-1RC-K-R4/10	1191.00	16 L/min, ΔP 10 bar	24v DC	1.0a / 13.4Ω	Closed	
HD3-PS-1PC-K-R2/10	1191.00	32 L/min, ΔP 10 bar	12v DC	2.4a / 2.3Ω	Closed	
HD3-PS-1PC-K-R4/10	1191.00	32 L/min, ΔP 10 bar	24v DC	1.0a / 13.4Ω	Closed	
HD3-PS-105MLb-K-R2/10	1286.00	5 L/min, ΔP 10 bar	12v DC	2.4a / 2.3Ω	Closed	EB
HD3-PS-105MLb-K-R4/10	1286.00	5 L/min, ΔP 10 bar	24v DC	1.0a / 13.4Ω	Closed	
HD3-PS-1RMLb-K-R2/10	1191.00	16 L/min, ΔP 10 bar	12v DC	2.4a / 2.3Ω	Closed	
HD3-PS-1RMLb-K-R4/10	1191.00	16 L/min, ΔP 10 bar	24v DC	1.0a / 13.4Ω	Closed	
HD3-PS-1PMLb-K-R2/10	1191.00	32 L/min, ΔP 10 bar	12v DC	2.4a / 2.3Ω	Closed	
HD3-PS-1PMLb-K-R4/10	1191.00	32 L/min, ΔP 10 bar	24v DC	1.0a / 13.4Ω	Closed	
HD3-PS-105ML-K-R2/10	1286.00	5 L/min, ΔP 10 bar	12v DC	2.4a / 2.3Ω	Closed	EA
HD3-PS-105ML-K-R4/10	1286.00	5 L/min, ΔP 10 bar	24v DC	1.0a / 13.4Ω	Closed	
HD3-PS-1RML-K-R2/10	1191.00	16 L/min, ΔP 10 bar	12v DC	2.4a / 2.3Ω	Closed	
HD3-PS-1RML-K-R4/10	1191.00	16 L/min, ΔP 10 bar	24v DC	1.0a / 13.4Ω	Closed	
HD3-PS-1PML-K-R2/10	1191.00	32 L/min, ΔP 10 bar	12v DC	2.4a / 2.3Ω	Closed	
HD3-PS-1PML-K-R4/10	1191.00	32 L/min, ΔP 10 bar	24v DC	1.0a / 13.4Ω	Closed	

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DATA

Optional Coils

Part #	List Price \$	Coil Voltage	Nominal Max. Current	Connection
B03-12R2	71.00	12v DC	2.4a / 2.3Ω	DIN 43650A
B03-12C	71.00	12v DC	2.7a / 4.4Ω	DIN 43650A
B03-24R4	71.00	24v DC	1a / 13.4Ω	DIN 43650A
B03-24C	71.00	24v DC	1.29a / 18.6Ω	DIN 43650A
B03-12R2-D	98.00	12v DC	2.4a / 2.3Ω	DEUTSCH
B03-12C-D	99.00	12v DC	2.7a / 4.4Ω	DEUTSCH
B03-24R4-D	98.00	24v DC	1a / 13.4Ω	DEUTSCH
B03-24C-D	99.00	24v DC	1.29a / 18.6Ω	DEUTSCH



B03 (DIN)



B03 (DEUTSCH)

TECH DATA

Proportional Valve Controller

Independent adjustment (ramp up/down) | Wide ramp time range | PVM output | Display/adjust current & voltage

Part #	List Price \$	Voltage	Input Signal	Output Current	Mounting	Controls
UED-KA	1196.00	9-36v DC	0-5v, 0-10v, 4-20mA	0-3 amp	DIN 43650-A	1 solenoid
SY-DPCA-D-P9-1	473.00	12-24v DC	0-5v, 0-10v, 4-20mA	0-3 amp	DIN 43650-A	1 solenoid
UED-D	2159.00	9-36v DC	0-5v, 0-10v, 4-20mA	0-3 amp	DIN rail (open)	1 or 2 solenoid
SY-DPCA-P-1	252.00	12-24v DC	0-5v, 0-10v, 4-20mA	0-2.1 amp	DIN rail (open)	1 solenoid
SY-DPCA-C-1	116.00	12-24v DC	0-5v, 0-10v, 4-20mA	0-3 amp	DIN rail (open)	1 solenoid

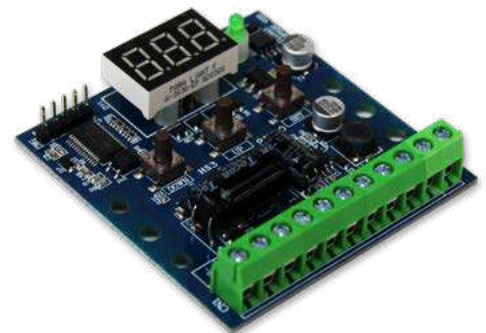


UED-KA

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UED-D



SY-DPCA-P-1



SY-DPCA-D-P9-1



SY-DPCA-C-1

Wiring
Harnesses
on page 78



TECH DATA

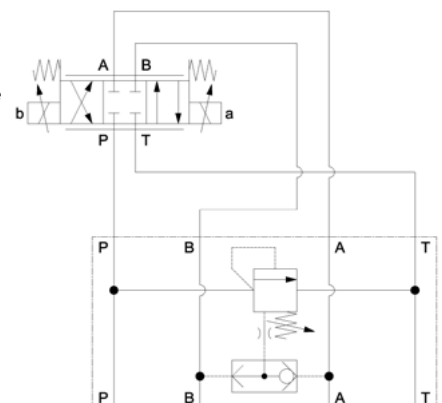
Pressure Compensator Valve

Part #	List Price \$	Description
AM3-LS-P3/20	873.00	3-way pressure compensator valve with load-sensing

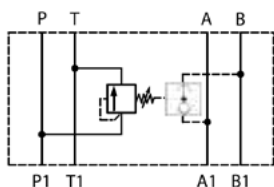
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Proportional
Directional Valve



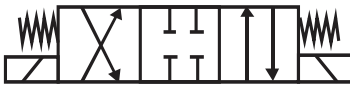
Pressure Compensator



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DATA**

Cetop 3 Directional Control Valve - Solenoid Operated

Recommended maximum flow 40 L/min @ 210 bar

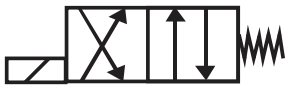
Part #	List Price \$	Coil Voltage	Max Press Tank	Transition	Diagram
4WE6E-6X/EG12-N9K4-Z5L	322.00	12v DC	160 bar	Closed	E 
4WE6E-6X/EG24-N9K4-Z5L	322.00	24v DC	160 bar	Closed	
4WE6E-6X/EG220-N9K4-Z5L	322.00	240v AC	160 bar	Closed	
4WE6H-6X/EG12-N9K4-Z5L	322.00	12v DC	160 bar	Open	H 
4WE6H-6X/EG24-N9K4-Z5L	322.00	24v DC	160 bar	Open	
4WE6H-6X/EG220-N9K4-Z5L	322.00	240v AC	160 bar	Open	
4WE6J-6X/EG12-N9K4-Z5L	322.00	12v DC	160 bar	A+B to tank	J 
4WE6J-6X/EG24-N9K4-Z5L	322.00	24v DC	160 bar	A+B to tank	
4WE6J-6X/EG220-N9K4-Z5L	322.00	240v AC	160 bar	A+B to tank	
4WE6G-6X/EG12-N9K4-Z5L	322.00	12v DC	160 bar	Open	G 
4WE6G-6X/EG24-N9K4-Z5L	322.00	24v DC	160 bar	Open	
4WE6G-6X/EG220-N9K4-Z5L	322.00	240v AC	160 bar	Open	



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DATA**

Cetop 3 Directional Control Valve - Solenoid Operated

Recommended maximum flow 40 L/min @ 210 bar

Part #	List Price \$	Coil Voltage	Max Press Tank	Transition	Diagram
4WE6C-6X/EG12-N9K4-Z5L	267.00	12v DC	160 bar	Open	C 
4WE6C-6X/EG24-N9K4-Z5L	267.00	24v DC	160 bar	Open	
4WE6C-6X/EG220-N9K4-Z5L	267.00	240v AC	160 bar	Open	
4WE6D-6X/EG12-N9K4-Z5L	267.00	12v DC	160 bar	Closed	D 
4WE6D-6X/EG24-N9K4-Z5L	267.00	24v DC	160 bar	Closed	
4WE6D-6X/EG220-N9K4-Z5L	267.00	240v AC	160 bar	Closed	
4WE6HA-6X/EG12-N9K4-Z5L	267.00	12v DC	160 bar	Open	HA 
4WE6HA-6X/EG24-N9K4-Z5L	267.00	24v DC	160 bar	Open	
4WE6HA-6X/EG220-N9K4-Z5L	267.00	240v AC	160 bar	Open	

More options on following page...

TECH DATA

Cetop 3 Directional Control Valves - Solenoid Operated (...continued)

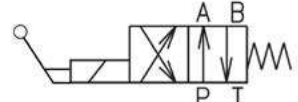
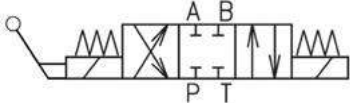
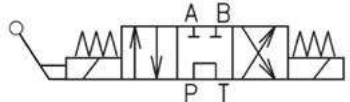
Recommended maximum flow 40 L/min @ 210 bar

Part #	List Price \$	Coil Voltage	Max Press Tank	Transition	Diagram
4WE6EB-6X/EG12-N9K4-Z5L	267.00	12v DC	160 bar	Closed	
4WE6EB-6X/EG24-N9K4-Z5L	267.00	24v DC	160 bar	Closed	
4WE6EB-6X/EG220-N9K4-Z5L	267.00	240v AC	160 bar	Closed	
4WE6EA-6X/EG12-N9K4-Z5L	267.00	12v DC	160 bar	Closed	
4WE6EA-6X/EG24-N9K4-Z5L	267.00	24v DC	160 bar	Closed	
4WE6EA-6X/EG220-N9K4-Z5L	267.00	240v AC	160 bar	Closed	



TECH DATA

Cetop 3 Directional Control Valve - Solenoid & Lever Operated

Part #	List Price \$	Coil Voltage	Max Press Tank	Transition	Diagram
4WE6C-EL-6X/EG12-N9K4-Z5L	492.00	12v DC	160 bar	Closed	
4WE6C-EL-6X/EG24-N9K4-Z5L	492.00	24v DC	160 bar	Closed	
4WE6C-EL-6X/EG220-N9K4-Z5L	492.00	240v AC	160 bar	Closed	
4WE6E-EL-6X/EG12-N9K4-Z5L	532.00	12v DC	160 bar	Closed	
4WE6E-EL-6X/EG24-N9K4-Z5L	532.00	24v DC	160 bar	Closed	
4WE6E-EL-6X/EG220-N9K4-Z5L	532.00	240v AC	160 bar	Closed	
4WE6J-EL-6X/EG12-N9K4-Z5L	532.00	12v DC	160 bar	A+B to tank	
4WE6J-EL-6X/EG24-N9K4-Z5L	532.00	24v DC	160 bar	A+B to tank	
4WE6J-EL-6X/EG220-N9K4-Z5L	532.00	240v AC	160 bar	A+B to tank	
4WE6G-EL-6X/EG12-N9K4-Z5L	532.00	12v DC	160 bar	Open	
4WE6G-EL-6X/EG24-N9K4-Z5L	532.00	24v DC	160 bar	Open	
4WE6G-EL-6X/EG220-N9K4-Z5L	532.00	240v AC	160 bar	Open	
4WE6H-EL-6X/EG12-N9K4-Z5L	532.00	12v DC	160 bar	Open	
4WE6H-EL-6X/EG24-N9K4-Z5L	532.00	24v DC	160 bar	Open	
4WE6H-EL-6X/EG220-N9K4-Z5L	532.00	240v AC	160 bar	Open	

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Cetop 3 Directional Control Valve - Lever Operated

Part #	List Price \$	Spool Positioner	Max Press Tank	Transition		Diagram
4WMM6E51	330.00	Spring return	160 bar	Closed	E	
4WMM6E51F	330.00	Spring return detent	160 bar	Closed	E	
4WMM6H51	330.00	Spring return	160 bar	Open	H	
4WMM6H51F	330.00	Spring return detent	160 bar	Open	H	
4WMM6J51	330.00	Spring return	160 bar	A+B to tank	J	
4WMM6J51F	330.00	Spring return detent	160 bar	A+B to tank	J	
4WMM6G51	344.00	Spring return	160 bar	Open	G	
4WMM6G51F	361.00	Spring return detent	160 bar	Open	G	
4WMM6C51	330.00	Spring return	160 bar	Open	C	
4WMM6C51F	345.00	Spring return detent	160 bar	Open	C	
4WMM6D51	345.00	Spring return	160 bar	Closed	D	
4WMM6D51F	345.00	Spring return detent	160 bar	Closed	D	



Cetop 5 Directional Control Valves - Solenoid Operated

ED Series (low power consumption coils)

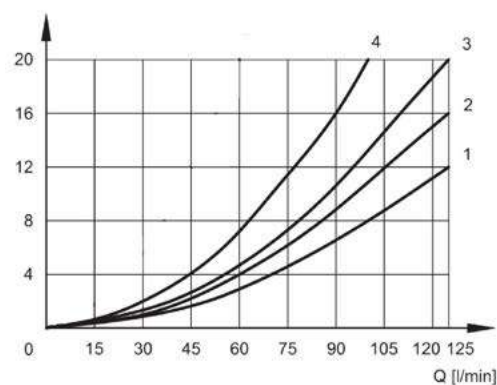
	SOLENOID
Nominal Flow Rate	100 L/min
Maximum Recommended Flow	125 L/min
Maximum Nominal Pressure P,A,B	320 bar
Maximum Pressure on T Port	210 bar
Duty Cycle	100%
Bolts (single valve)	M6x35mm (tighten to 12Nm)



Typical Diagrams

Typical rp - Q curves for valves HD5-ED-* in standard configuration. Measured with mineral oil at 32mm²/s and T=40 °C.

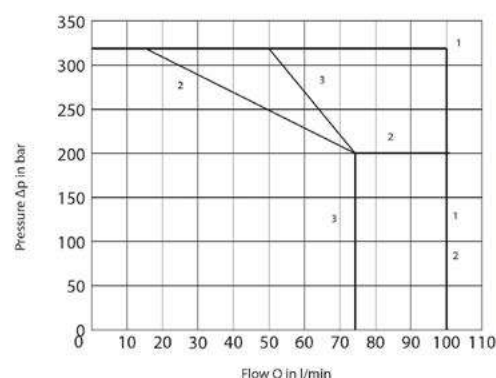
Spool	P-A	P-B	A-T	B-T	P-T
0C	1	1	1	1	1
1C	1	1	2	2	-
3C	1	1	1	1	-
4C	4	4	4	4	1
1LL	2	2	3	3	-
1LLb	2	2	3	3	-



Hydraulic Limit of Use

rp - Q characteristics limits for safe use of HD5-ED-* solenoid operated valves. Measured with mineral oil at 32mm²/s and T=40 °C.

Spool	Limit	Spool	Limit
1C	1	4ML	3
4C	3	1ML	1
0C	1	1MLb	1
3C	2	1LLb	1
1LL	1	4MLb	3
3ML	2		



HYDRAULIC FLUID

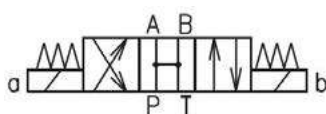
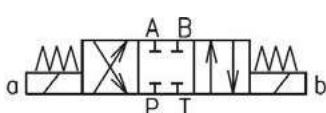
Seals and materials used on standard HD5-* valves are fully compatible with hydraulic fluids of mineral base, upgrading with antifoaming and antioxidising agents.

The hydraulic fluid must be kept clear and filtered to ISO4406 class 19/17/14, or better, and used in a recommended viscosity range from 10cSt to 60cSt.

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Cetop 5 Directional Control Valves - Solenoid Operated

ED Series (low power consumption coils)

Part #	List Price \$	Coil Voltage	Transition	Diagram
HD5-ED-0C-012C/10	800.00	12v DC	Open	H 
HD5-ED-0C-024C/10	800.00	24v DC	Open	
HD5-ED-0C-230A/10	880.00	230v AC	Open	
HD5-ED-0C-115A/10	880.00	115v AC	Open	
HD5-ED-1C-012C/10	800.00	12v DC	Closed	E 
HD5-ED-1C-024C/10	800.00	24v DC	Closed	
HD5-ED-1C-230A/10	880.00	230v AC	Closed	
HD5-ED-1C-115A/10	880.00	115v AC	Closed	
HD5-ED-3C-012C/10	800.00	12v DC	A & B to T	J 
HD5-ED-3C-024C/10	800.00	24v DC	A & B to T	
HD5-ED-3C-230A/10	880.00	230v AC	A & B to T	
HD5-ED-3C-115A/10	880.00	115v AC	A & B to T	
HD5-ED-4C-012C/10	953.00	12v DC	Open	G 
HD5-ED-4C-024C/10	953.00	24v DC	Open	
HD5-ED-4C-230A/10	1031.00	230v AC	Open	
HD5-ED-4C-115A/10	1031.00	115v AC	Open	

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Coil Power Consumption

Voltage	Amps
12v DC	2.4a
24v DC	1.2a
115v 50hz	0.26a
230v 50hz	0.14a

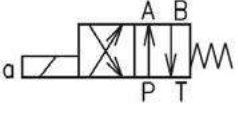
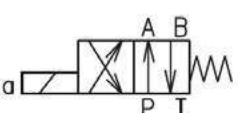
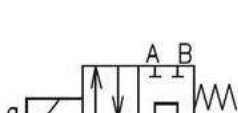
**DIN plugs &
accessories
page 291-292**



**TECH
DATA**

Cetop 5 Directional Control Valve - Solenoid Operated

ED Series (low power consumption coils)

Part #	List Price \$	Coil Voltage	Transition	Diagram
HD5-ED-0LL-012C/10	660.00	12v DC	Open	C 
HD5-ED-0LL-024C/10	660.00	24v DC	Open	
HD5-ED-0LL-230A/10	704.00	230v AC	Open	
HD5-ED-0LL-115A/10	704.00	115v AC	Open	
HD5-ED-0ML-012C/10	660.00	12v DC	Open	H 
HD5-ED-0ML-024C/10	660.00	24v DC	Open	
HD5-ED-0ML-230A/10	701.00	230v AC	Open	
HD5-ED-0ML-115A/10	701.00	115v AC	Open	
HD5-ED-1LL-012C/10	660.00	12v DC	Closed	D 
HD5-ED-1LL-024C/10	660.00	24v DC	Closed	
HD5-ED-1LL-230A/10	701.00	230v AC	Closed	
HD5-ED-1LL-115A/10	701.00	115v AC	Closed	
HD5-ED-1ML-012C/10	660.00	12v DC	Closed	E 
HD5-ED-1ML-024C/10	660.00	24v DC	Closed	
HD5-ED-1ML-230A/10	701.00	230v AC	Closed	
HD5-ED-1ML-115A/10	701.00	115v AC	Closed	
HD5-ED-3ML-012C/10	660.00	12v DC	A & B to T	J 
HD5-ED-3ML-024C/10	660.00	24v DC	A & B to T	
HD5-ED-3ML-230A/10	701.00	230v AC	A & B to T	
HD5-ED-3ML-115A/10	701.00	115v AC	A & B to T	
HD5-ED-4ML-012C/10	814.00	12v DC	Open	G 
HD5-ED-4ML-024C/10	814.00	24v DC	Open	
HD5-ED-4ML-230A/10	854.00	230v AC	Open	
HD5-ED-4ML-115A/10	854.00	115v AC	Open	

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Coil Power Consumption

Voltage	Amps
12v DC	2.4a
24v DC	1.2a
115v 50hz	0.26a
230v 50hz	0.14a



**DIN plugs & accessories
page 291-292**

Cetop 5 Directional Control Valve - Solenoid Operated - High Power

ES Series (high power B05 coils)

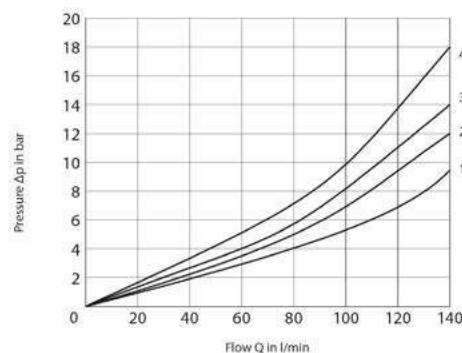
	SOLENOID
Nominal Flow Rate	120 L/min
Maximum Recommended Flow	See graphs
Maximum Nominal Pressure P,A,B	320 bar
Maximum Pressure on T Port	210 bar
Duty Cycle	100%
Bolts (single valve)	M6x35mm (tighten to 12Nm)



Typical Diagrams

Typical rp -Q curves for valves HD5-ES-* in standard configuration. Measured with mineral oil at $32\text{mm}^2/\text{s}$ and $T=40^\circ\text{C}$.

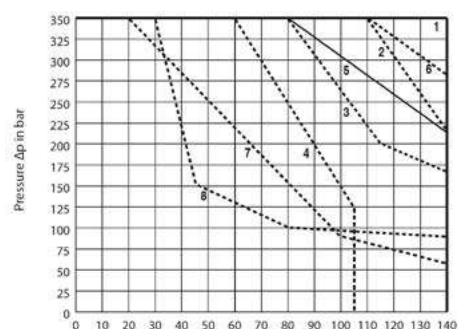
Spool	P-A	P-B	A-T	B-T	P-T
0C	1	1	2	2	1
1C	1	1	2	2	-
3C	1	1	2	2	-
4C	3	3	4	4	1
0LL	1	1	1	3	-
1LL	1	1	2	2	-
0ML	-	1	2	-	1
1ML	-	1	2	-	-
3ML	-	1	2	-	-
4ML	3	-	-	4	1



Hydraulic Limit of Use

rp -Q characteristics limits for safe use of HD5-ES-* solenoid operated valves. Measured with mineral oil at $32\text{mm}^2/\text{s}$ and $T=40^\circ\text{C}$.

Spool	Limit	Spool	Limit
0C	1	4C	3
1C	1	0LL	2
0ML	1	1LL	2
1ML	1	1LLb	2
3C	5	4MLb	3
3ML	5		



HYDRAULIC FLUID

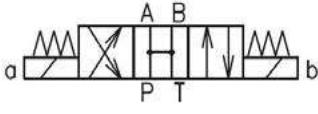
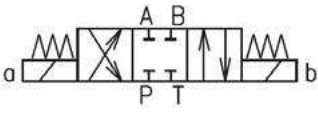
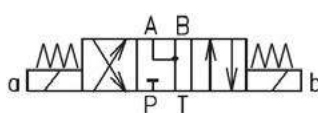
Seals and materials used on standard HD5-* valves are fully compatible with hydraulic fluids of mineral base, upgrading with antifoaming and antioxidising agents.

The hydraulic fluid must be kept clear and filtered to ISO4406 class 19/17/14, or better, and used in a recommended viscosity range from 10cSt to 60cSt.

TECH DATA

Cetop 5 Directional Control Valve - Solenoid Operated - High Power

ES Series (high power B05 coils)

Part #	List Price \$	Coil Voltage	Transition	Diagram
HD5-ES-0C-012C/20	959.00	12v DC	Open	H 
HD5-ES-0C-024C/20	959.00	24v DC	Open	
HD5-ES-0C-230A/20	1036.00	230v AC	Open	
HD5-ES-0C-115A/20	1036.00	115v AC	Open	
HD5-ES-1C-012C/20	959.00	12v DC	Closed	E 
HD5-ES-1C-024C/20	959.00	24v DC	Closed	
HD5-ES-1C-230A/20	1036.00	230v AC	Closed	
HD5-ES-1C-115A/20	1036.00	115v AC	Closed	
HD5-ES-3C-012C/20	927.00	12v DC	A & B to T	J 
HD5-ES-3C-024C/20	927.00	24v DC	A & B to T	
HD5-ES-3C-230A/20	1034.00	230v AC	A & B to T	
HD5-ES-3C-115A/20	1034.00	115v AC	A & B to T	
HD5-ES-4C-012C/20	1119.00	12v DC	Open	G 
HD5-ES-4C-024C/20	1119.00	24v DC	Open	
HD5-ES-4C-230A/20	1196.00	230v AC	Open	
HD5-ES-4C-115A/20	1196.00	115v AC	Open	

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Coil Power Consumption

Voltage	Amps
12v DC	3.17a
24v DC	1.73a
115v 50/60hz	0.40a
230v 50/60hz	0.20a



DIN plugs &
accessories
page 291-292

**TECH
DATA**

Cetop 5 Directional Control Valve - Solenoid Operated - High Power

ES Series (high power B05 coils)

Part #	List Price \$	Coil Voltage	Transition	Diagram
HD5-ES-0LL-012C/20	737.00	12v DC	Open	
HD5-ES-0LL-024C/20	737.00	24v DC	Open	
HD5-ES-0LL-230A/20	776.00	230v AC	Open	
HD5-ES-0LL-115A/20	776.00	115v AC	Open	
HD5-ES-0ML-012C/20	737.00	12v DC	Open	
HD5-ES-0ML-024C/20	737.00	24v DC	Open	
HD5-ES-0ML-230A/20	776.00	230v AC	Open	
HD5-ES-0ML-115A/20	776.00	115v AC	Open	
HD5-ES-1LL-012C/20	737.00	12v DC	Closed	
HD5-ES-1LL-024C/20	737.00	24v DC	Closed	
HD5-ES-1LL-230A/20	776.00	230v AC	Closed	
HD5-ES-1LL-115A/20	776.00	115v AC	Closed	
HD5-ES-1ML-012C/20	737.00	12v DC	Closed	
HD5-ES-1ML-024C/20	737.00	24v DC	Closed	
HD5-ES-1ML-230A/20	776.00	230v AC	Closed	
HD5-ES-1ML-115A/20	776.00	115v AC	Closed	
HD5-ES-3ML-012C/20	737.00	12v DC	A & B to T	
HD5-ES-3ML-024C/20	737.00	24v DC	A & B to T	
HD5-ES-3ML-230A/20	776.00	230v AC	A & B to T	
HD5-ES-3ML-115A/20	776.00	115v AC	A & B to T	
HD5-ES-4ML-012C/20	897.00	12v DC	Open	
HD5-ES-4ML-024C/20	897.00	24v DC	Open	
HD5-ES-4ML-230A/20	937.00	230v AC	Open	
HD5-ES-4ML-115A/20	937.00	115v AC	Open	

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Coil Power Consumption

Voltage	Amps
12v DC	3.17a
24v DC	1.73a
115v 50/60hz	0.40a
230v 50/60hz	0.20a



**DIN plugs &
accessories
page 291-292**

TECH DATA

Cetop 5 Pneumatic Pilot Operated Valves

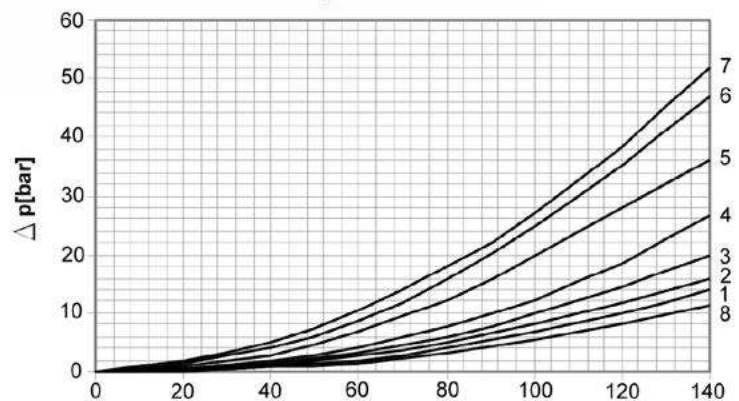
1/4" BSPP ports, maximum pressure on A,B,P 320 bar (see graph for flow rating)

Part #	List Price \$	Pilot Pressure	Max Pressure Tank	Transition	Symbol	Diagram
RH10016FNG	735.00	10-14.8 bar	160 bar	Closed	01	
RH10026FNG	735.00	10-14.8 bar	160 bar	A+B to T	04	



SYMBOL	CURVE				
	P>A	P>B	A>T	B>T	P>T
01	3	3	1	1	-
04	6	6	5	5	4

$\Delta p/Q$ -curves



**TECH
DATA**

Cetop 5 Directional Control Valve - Solenoid Operated

Recommended maximum flow 80 L/min @ 210 bar

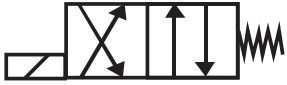
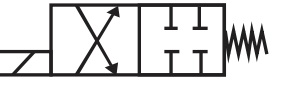
Part #	List Price \$	Coil Voltage	Max Press Tank	Transition	Diagram
4WE10E-3X/EG12-N9K4-Z5L	491.00	12v DC	160 bar	Closed	E
4WE10E-3X/EG24-N9K4-Z5L	491.00	24v DC	160 bar	Closed	
4WE10E-3X/EG220-N9K4-Z5L	491.00	240v AC	160 bar	Closed	
4WE10H-3X/EG12-N9K4-Z5L	491.00	12v DC	160 bar	Open	H
4WE10H-3X/EG24-N9K4-Z5L	491.00	24v DC	160 bar	Open	
4WE10H-3X/EG220-N9K4-Z5L	491.00	240v AC	160 bar	Open	
4WE10J-3X/EG12-N9K4-Z5L	491.00	12v DC	160 bar	A+B to tank	J
4WE10J-3X/EG24-N9K4-Z5L	491.00	24v DC	160 bar	A+B to tank	
4WE10J-3X/EG220-N9K4-Z5L	491.00	240v AC	160 bar	A+B to tank	
4WE10G-3X/EG12-N9K4-Z5L	491.00	12v DC	160 bar	Open	G
4WE10G-3X/EG24-N9K4-Z5L	491.00	24v DC	160 bar	Open	
4WE10G-3X/EG220-N9K4-Z5L	491.00	240v AC	160 bar	Open	



TECH DATA

Cetop 5 Directional Control Valve - Solenoid Operated

Recommended maximum flow 80 L/min @ 210 bar

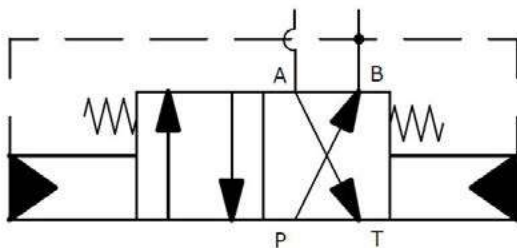
Part #	List Price \$	Coil Voltage	Max Press Tank	Transition	Diagram
4WE10C-3X/EG12-N9K4-Z5L	406.00	12v DC	160 bar	Open	C 
4WE10C-3X/EG24-N9K4-Z5L	406.00	24v DC	160 bar	Open	
4WE10C-3X/EG220-N9K4-Z5L	406.00	240v AC	160 bar	Open	
4WE10D-3X/EG12-N9K4-Z5L	406.00	12v DC	160 bar	Closed	D 
4WE10D-3X/EG24-N9K4-Z5L	406.00	24v DC	160 bar	Closed	
4WE10D-3X/EG220-N9K4-Z5L	406.00	240v AC	160 bar	Closed	
4WE10HA-3X/EG12-N9K4-Z5L	406.00	12v DC	160 bar	Open	HA 
4WE10HA-3X/EG24-N9K4-Z5L	406.00	24v DC	160 bar	Open	
4WE10HA-3X/EG220-N9K4-Z5L	406.00	240v AC	160 bar	Open	
4WE10EB-3X/EG12-N9K4-Z5L	406.00	12v DC	160 bar	Closed	EB 
4WE10EB-3X/EG24-N9K4-Z5L	406.00	24v DC	160 bar	Closed	
4WE10EB-3X/EG220-N9K4-Z5L	406.00	240v AC	160 bar	Closed	
4WE10EA-3X/EG12-N9K4-Z5L	406.00	12v DC	160 bar	Closed	EA 
4WE10EA-3X/EG24-N9K4-Z5L	406.00	24v DC	160 bar	Closed	
4WE10EA-3X/EG220-N9K4-Z5L	406.00	240v AC	160 bar	Closed	



TECH DATA

Auto-Cycling Valve

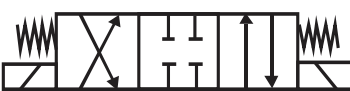
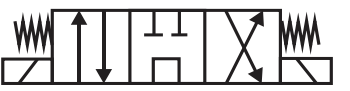
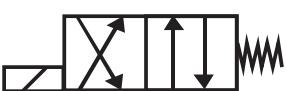
Part #	List Price \$	To Suit	Pressure Range	Flow Range
ES610-41	1149.00	Cetop 3	50-350 bar	3-30 L/min
ES610-42	1352.00	Cetop 5	60-320 bar	10-100 L/min



**TECH
DATA**

Cetop 7 Directional Control Valve Pilot Operated via Solenoid Valve - Standard Internal Pilot/Drain

Recommended maximum flow 200 L/min @ 350 bar

Part #	List Price \$	Coil Voltage	Max Press Tank	Transition	Diagram
4WEH16E-7X/6EG12-N9ETK4-Z5L	1085.00	12v DC	100 bar	Closed	E 
4WEH16E-7X/6EG24-N9ETK4-Z5L	1085.00	24v DC	100 bar	Closed	
4WEH16E-7X/6EG220-N9ETK4-Z5L	1085.00	240v AC	100 bar	Closed	
4WEH16H-7X/6EG12-N9ETK4-Z5L	1085.00	12v DC	100 bar	Open	H 
4WEH16H-7X/6EG24-N9ETK4-Z5L	1085.00	24v DC	100 bar	Open	
4WEH16H-7X/6EG220-N9ETK4-Z5L	1085.00	240v AC	100 bar	Open	
4WEH16J-7X/6EG12-N9ETK4-Z5L	1085.00	12v DC	100 bar	A+B to tank	J 
4WEH16J-7X/6EG24-N9ETK4-Z5L	1085.00	24v DC	100 bar	A+B to tank	
4WEH16J-7X/6EG220-N9ETK4-Z5L	1085.00	240v AC	100 bar	A+B to tank	
4WEH16G-7X/6EG12-N9ETK4-Z5L	1085.00	12v DC	100 bar	Open	G 
4WEH16G-7X/6EG24-N9ETK4-Z5L	1085.00	24v DC	100 bar	Open	
4WEH16G-7X/6EG220-N9ETK4-Z5L	1085.00	240v AC	100 bar	Open	
4WEH16H-7X/6EG12-N9ETK4-Z5L	1085.00	12v DC	100 bar	Open	C 
4WEH16H-7X/6EG24-N9ETK4-Z5L	1085.00	24v DC	100 bar	Open	
4WEH16H-7X/6EG220-N9ETK4-Z5L	1085.00	240v AC	100 bar	Open	
4WEH16D-7X/6EG12-N9K4-Z5L	925.00	12v DC	100 bar	Closed	D 
4WEH16D-7X/6EG24-N9ETK4-Z5L	925.00	24v DC	100 bar	Closed	
4WEH16D-7X/6EG220-N9ETK4-Z5L	925.00	240v AC	100 bar	Closed	

 External pilot/drain option available - additional cost \$63.00

**TECH
DATA**

Cetop 7 Subplates & Accessories

Part #	List Price \$	Stations	Function	Ports	Material
G174/01	439.00	1	Rear Ports	1" BSPP	Steel
4DWHG16-P4.5	74.00	Cetop 7, 4.5 bar pre-load valve			NEW



G174/01



4DWHG16-P4.5



**Coil options
on page 291**

TECH DATA

Cetop 8 Directional Control Valve Pilot Operated via Solenoid Valve - Standard Internal Pilot/Drain

Recommended maximum flow 600 L/min @ 350 bar

Part #	List Price \$	Coil Voltage	Max Press Tank	Transition	Diagram
4WEH25E-7X/6EG12-N9ETK4-Z5L	1374.00	12v DC	100 bar	Closed	
4WEH25E-7X/6EG24-N9ETK4-Z5L	1374.00	24v DC	100 bar	Closed	
4WEH25E-7X/6EG220-N9ETK4-Z5L	1374.00	240v AC	100 bar	Closed	
4WEH25H-7X/6EG12-N9ETK4-Z5L	1374.00	12v DC	100 bar	Open	
4WEH25H-7X/6EG24-N9ETK4-Z5L	1374.00	24v DC	100 bar	Open	
4WEH25H-7X/6EG220-N9ETK4-Z5L	1374.00	240v AC	100 bar	Open	
4WEH25J-7X/6EG12-N9ETK4-Z5L	1374.00	12v DC	100 bar	A+B to tank	
4WEH25J-7X/6EG24-N9ETK4-Z5L	1374.00	24v DC	100 bar	A+B to tank	
4WEH25J-7X/6EG220-N9ETK4-Z5L	1374.00	240v AC	100 bar	A+B to tank	
4WEH25G-7X/6EG12-N9ETK4-Z5L	1374.00	12v DC	100 bar	Open	
4WEH25G-7X/6EG24-N9ETK4-Z5L	1374.00	24v DC	100 bar	Open	
4WEH25G-7X/6EG220-N9ETK4-Z5L	1374.00	240v AC	100 bar	Open	
4WEH25C-7X/6EG12-N9ETK4-Z5L	1269.00	12v DC	100 bar	Open	
4WEH25C-7X/6EG24-N9ETK4-Z5L	1269.00	24v DC	100 bar	Open	
4WEH25C-7X/6EG220-N9ETK4-Z5L	1269.00	240v AC	100 bar	Open	
4WEH25D-7X/6EG12-N9ETK4-Z5L	1269.00	12v DC	100 bar	Closed	
4WEH25D-7X/6EG24-N9ETK4-Z5L	1269.00	24v DC	100 bar	Closed	
4WEH25D-7X/6EG220-N9ETK4-Z5L	1269.00	240v AC	100 bar	Closed	

External pilot/drain option available - additional cost \$63.00

TECH DATA

Cetop 8 Subplates & Accessories

Part #	List Price \$	Function	Ports	Material
DGSP-08G-16	415.00	Rear Port	1" BSPP	Steel
DGSP-08G-16E	415.00	Side Port	1" BSPP	Steel
4DWHG25-P4.5	95.00	Cetop 8, 4.5 bar pre-load valve		NEW



4DWHG25-P4.5

Coil options
on page 291



-16E



-16



TECH DATA

Valve Coils (4WE6)

Part #	List Price \$	Voltage	Amp	Core Size	Length	Connector	Valve
COIL-06-12VDC	83.00	12v DC	2.66a	23.5mm	50.7mm	DIN 43650-A	4WE6
COIL-06-24VDC	83.00	24v DC	1.45a	23.5mm	50.7mm	DIN 43650-A	4WE6
COIL-06-48VDC	83.00	48v DC	0.7a	23.5mm	50.7mm	DIN 43650-A	4WE6
COIL-06-110VAC	83.00	110v AC	0.35a	23.5mm	50.7mm	DIN 43650-A	4WE6
COIL-06-220VAC	83.00	220v AC	0.17a	23.5mm	50.7mm	DIN 43650-A	4WE6

TECH DATA

Valve Coils (4WE10)

Part #	List Price \$	Voltage	Amp	Core Size	Length	Connector	Valve
COIL-10-12VDC	108.00	12v DC	4.0a	31.8mm	75.2mm	DIN 43650-A	4WE10
COIL-10-24VDC	108.00	24v DC	2.0a	31.8mm	75.2mm	DIN 43650-A	4WE10
COIL-10-110VAC	108.00	110v AC	0.5a	31.8mm	75.2mm	DIN 43650-A	4WE10
COIL-10-220VAC	108.00	220v AC	0.25a	31.8mm	75.2mm	DIN 43650-A	4WE10

TECH DATA

Valve Coils (HD3-ES / HD5-ED Low Power)

Part #	List Price \$	Voltage	Amp	Core Size	Length	Connector	Valve
B03-12C	71.00	12v DC	2.5	22 mm	52 mm	DIN 43650-A	HD3-ES, HD5-ED
B03-24C	71.00	24v DC	1.29	22 mm	52 mm	DIN 43650-A	HD3-ES, HD5-ED
B03-48C	71.00	48v AC	0.6	22 mm	52 mm	DIN 43650-A	HD3-ES, HD5-ED
B03-115A	109.00	115v AC	0.26	22 mm	52 mm	DIN 43650-A	HD3-ES, HD5-ED
B03-230A	109.00	230v AC	0.14	22 mm	52 mm	DIN 43650-A	HD3-ES, HD5-ED

TECH DATA

Valve Coils (HD5-ES High Power)

Part #	List Price \$	Voltage	Amp	Core Size	Length	Connector	Valve
B05-12C	165.00	12v DC	3.17	31mm	73.5	DIN 43650-A	HD5-ES
B05-24C	165.00	24v DC	1.73	31mm	73.5	DIN 43650-A	HD5-ES
B05-48C	165.00	48v AC	0.865	31mm	73.5	DIN 43650-A	HD5-ES
B05-115C	206.00	115v AC	0.40	31mm	73.5	DIN 43650-A	HD5-ES
B05-230C	206.00	230v AC	0.20	31mm	73.5	DIN 43650-A	HD5-ES

TECH DATA

Manual Override Nut (4DWG6)

Part #	List Price \$	Description	Valve
4DWE6-DT-M-S	44.00	Fits 14mm solenoid thread	4WE6
4DWE6-DT-M-L	44.00	Fits 22mm solenoid thread	4WE6

TECH DATA

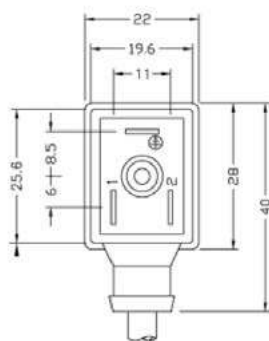
Spare Parts & Bolt Kits (HD Series)

Part #	List Price \$	Description	Valve
KIT-03K	72.00	Manual override - complete kit	HD3-ES, HD5-ED
WK-02	29.00	Manual override - rubber only	HD3-ES, HD5-ED
WK-05	45.00	Manual override - rubber only	HD5-ES
T03-T	235.00	Soft shifting armature kit	HD3-ES
TAP-03-OR	55.00	Nut & spring kit	HD3-ES, HD5-ED
TAP-05/20	63.00	Nut & spring kit	HD5-ES
HD3-01-BK	7.00	Cetop 3 - 1 section bolt kit	HD3-ES
HD3-02-BK	24.00	Cetop 3 - 2 section bolt kit	HD3-ES
HD3-03-BK	34.00	Cetop 3 - 3 section bolt kit	HD3-ES
HD5-01-BK-ED	7.00	Cetop 5 - 1 section bolt kit	HD5-ED
HD5-02-BK-ED	15.00	Cetop 5 - 2 section bolt kit	HD5-ED
HD5-03-BK-ED	26.00	Cetop 5 - 3 section bolt kit	HD5-ED
HD5-01-BK-ES	7.00	Cetop 5 - 1 section bolt kit	HD5-ES
HD5-02-BK-ES	15.00	Cetop 5 - 2 section bolt kit	HD5-ES
HD5-03-BK-ES	26.00	Cetop 5 - 3 section bolt kit	HD5-ES

TECH DATA

DIN Plugs 43650 Form B IND 2-Pole + PE

Part #	List Price \$	Connector	Circuits	Pre-wired Length	Integrated Gasket	Protection	Voltage DC	Voltage AC	Max. Current	Tech Data Reference
DP-IP65-AC/DC-IND	22.00	Form B IND	Red LED + varistor	-	No	IP67	1-250v	1-250v	10a @40°C	VE63 23A9R
DP-IP67-AC/DC-IND-3M	44.00	Form B IND	Red LED + varistor	3 metres	Yes	IP67	10-50v	-	10a @40°C	-



DP-IP67-AC/DC-IND-3M
Pre-wired 3m lead

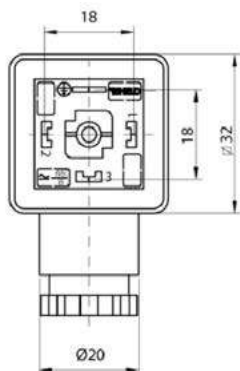


DP-IP65-AC/DC-IND

TECH DATA

DIN Plugs 43650 Form A 2-Pole + PE

Part #	List Price \$	Connector	Circuits	Pre-wired Length	Integrated Gasket	Protection	Voltage DC	Voltage AC	Max. Current	Tech Data Reference
DP-IP67-AC/DC-250	22.00	Form A	Red LED + varistor	-	No	IP67	1-250v	1-250v	10a @40°C	VC13 12A9R
DP-IP67-AC/DC-38	22.00	Form A	Red LED + varistor	-	No	IP67	1-38v	1-30v	10a @40°C	VC13 23A2R
DP-IP67-AC/DC-3M	44.00	Form A	Red LED + varistor	3 metres	Yes	IP67	1-42v	10-30v	10a @40°C	-
DP-LED-AC	14.00	Form A	Red LED	-	No	IP64	-	1-250v	10a @40°C	-
DP-LED-DC	14.00	Form A	Red LED	-	No	IP64	1-42v	-	10a @40°C	-
DP-REC-LV	37.00	Form A	Red LED + rectifier	-	No	IP67	-	10-50v	1.4a @40°C	VC13 33H3R
DP-REC	37.00	Form A	Red LED + rectifier	-	No	IP67	-	70-250v	1.4a @40°C	VC13 33H8R



DP-IP67-AC/DC-250
DP-IP67-AC/DC-38
DP-REC-LV
DP-REC



DP-LED-AC
DP-LED-DC



DP-IP67-AC/DC-3M
Pre-wired 3m lead

**TECH
DATA**

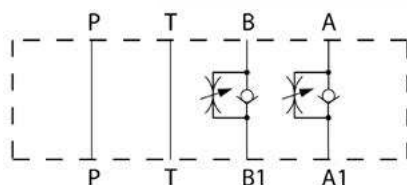
Flow Control Modular Valve (Meter In)

Part #	List Price \$	Function	Max Recommended Flow Rate	Max Nominal Pressure
AM3-FX-AB/10	381.00	Flow control on A & B, meter in	60 L/min	320 bar
AM3-FX-A/10	344.00	Flow control on A, meter in	60 L/min	320 bar
AM3-FX-B/10	344.00	Flow control on B, meter in	60 L/min	320 bar

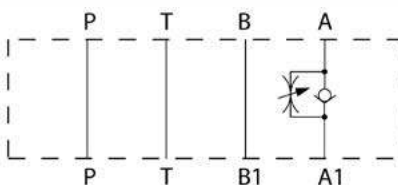
aidro
MADE IN EUROPE



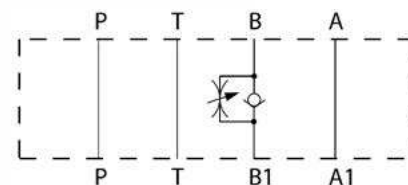
**Bolt kits
required - see
page 291**



FX-AB



FX-A



FX-B

**TECH
DATA**

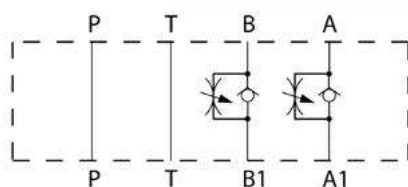
Flow Control Modular Valve (Meter Out)

Part #	List Price \$	Function	Max Recommended Flow Rate	Max Nominal Pressure
AM3-FC-AB/10	381.00	Flow control on A & B, meter out	60 L/min	320 bar
AM3-FC-A/10	344.00	Flow control on A, meter out	60 L/min	320 bar
AM3-FC-B/10	344.00	Flow control on B, meter out	60 L/min	320 bar

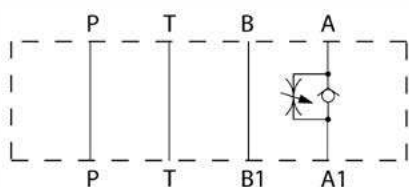
aidro
MADE IN EUROPE



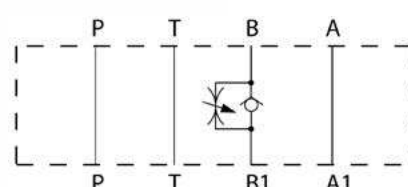
**Bolt kits
required - see
page 291**



FC-AB



FC-A

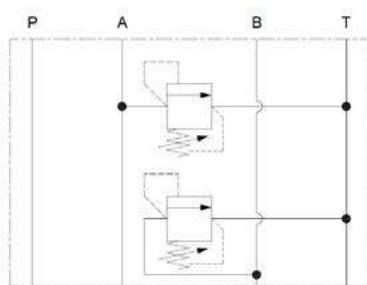


FC-B

TECH DATA

Direct Acting Pressure Relief Modular Valves

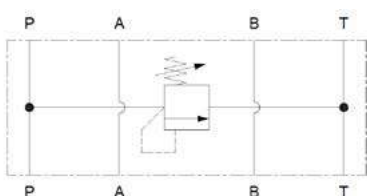
Part #	List Price \$	Function	Pressure Range	Max Recommended Flow Rate	Max Nominal Pressure
AM3-MO-P-10/10	381.00	Direct acting relief on P	25-125 bar	60 L/min	320 bar
AM3-MO-B-10/10	381.00	Direct acting relief on B	25-125 bar	60 L/min	320 bar
AM3-MO-BA-10/10	553.00	Direct acting relief on A & B	25-125 bar	60 L/min	320 bar
AM3-MO-P-20/10	381.00	Direct acting relief on P	40-250 bar	60 L/min	320 bar
AM3-MO-B-20/10	381.00	Direct acting relief on B	40-250 bar	60 L/min	320 bar
AM3-MO-BA-20-20/10	553.00	Direct acting relief on A & B	40-250 bar	60 L/min	320 bar
AM3-MO-P-32/10	381.00	Direct acting relief on P	100-320 bar	60 L/min	320 bar
AM3-MO-B-32/10	381.00	Direct acting relief on B	100-320 bar	60 L/min	320 bar
AM3-MO-BA-32-32/10	553.00	Direct acting relief on A & B	100-320 bar	60 L/min	320 bar



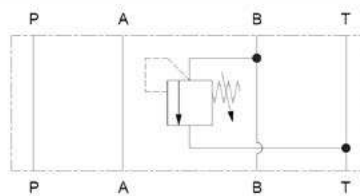
MO-BA



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MO-P



MO-B

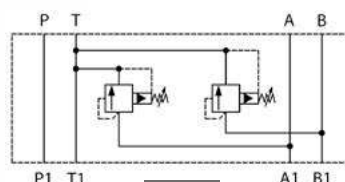
**Bolt kits
required - see
page 291**

TECH DATA

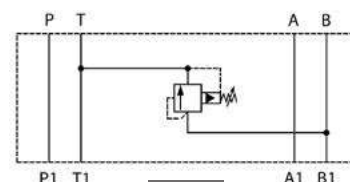
Pilot Operated Pressure Relief Modular Valves

Part #	List Price \$	Function	Pressure Range	Max Recommended Flow Rate	Max Nominal Pressure
AM3-MP-P-6.3/10	552.00	Pilot operated relief on P	10-70 bar	60 L/min	320 bar
AM3-MP-B-6.3/10	552.00	Pilot operated relief on B	10-70 bar	60 L/min	320 bar
AM3-MP-BA-6.3-6.3/10	894.00	Pilot operated relief on A & B	10-70 bar	60 L/min	320 bar
AM3-MP-P-12.5/10	552.00	Pilot operated relief on P	10-140 bar	60 L/min	320 bar
AM3-MP-B-12.5/10	552.00	Pilot operated relief on B	10-140 bar	60 L/min	320 bar
AM3-MP-BA-12.5-12.5/10	894.00	Pilot operated relief on A & B	10-140 bar	60 L/min	320 bar
AM3-MP-P-20/10	552.00	Pilot operated relief on P	20-210 bar	60 L/min	320 bar
AM3-MP-B-20/10	552.00	Pilot operated relief on B	20-210 bar	60 L/min	320 bar
AM3-MP-BA-20-20/10	894.00	Pilot operated relief on A & B	20-210 bar	60 L/min	320 bar
AM3-MP-P-32/10	552.00	Pilot operated relief on P	20-320 bar	60 L/min	320 bar
AM3-MP-B-32/10	552.00	Pilot operated relief on B	20-320 bar	60 L/min	320 bar
AM3-MP-BA-32-32/10	894.00	Pilot operated relief on A & B	20-320 bar	60 L/min	320 bar

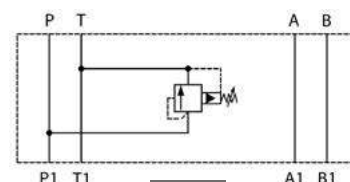
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MP-BA



MP-B



MP-P

**Bolt kits
required - see
page 291**

TECH
DATA

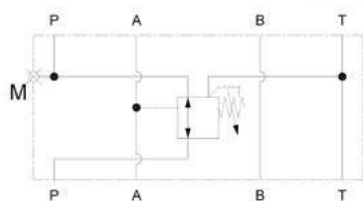
Pressure Reducing Modular Valve (Direct Acting)

Part #	List Price \$	Function	Pressure Reducing Range	Max Recommended Flow Rate	Max Nominal Pressure
AM3-RO-P-32/10	646.00	Pressure reducing in P	3-35 bar	60 L/min	320 bar
AM3-RO-A-32/10	692.00	Pressure reducing in A	3-35 bar	60 L/min	320 bar
AM3-RO-B-32/10	692.00	Pressure reducing in B	3-35 bar	60 L/min	320 bar
AM3-RO-P-6.3/10	646.00	Pressure reducing in P	10-70 bar	60 L/min	320 bar
AM3-RO-A-6.3/10	692.00	Pressure reducing in A	10-70 bar	60 L/min	320 bar
AM3-RO-B-6.3/10	692.00	Pressure reducing in B	10-70 bar	60 L/min	320 bar
AM3-RO-P-12.5/10	646.00	Pressure reducing in P	30-140 bar	60 L/min	320 bar
AM3-RO-A-12.5/10	692.00	Pressure reducing in A	30-140 bar	60 L/min	320 bar
AM3-RO-B-12.5/10	692.00	Pressure reducing in B	30-140 bar	60 L/min	320 bar
AM3-RO-P-25/10	646.00	Pressure reducing in P	60-280 bar	60 L/min	320 bar
AM3-RO-A-25/10	692.00	Pressure reducing in A	60-280 bar	60 L/min	320 bar
AM3-RO-B-25/10	692.00	Pressure reducing in B	60-280 bar	60 L/min	320 bar

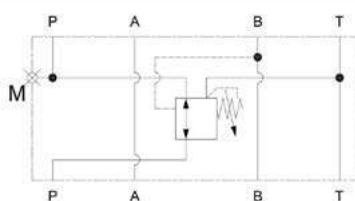
Bolt kits
required - see
page 291



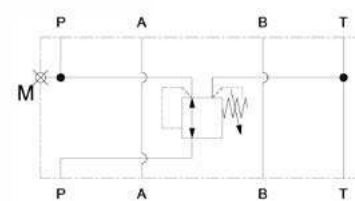
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R0-A



R0-B



R0-P

TECH
DATA

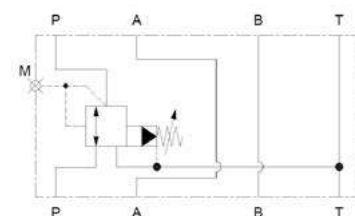
Pressure Reducing Modular Valve (Pilot Operated)

Part #	List Price \$	Function	Pressure Range	Max Recommended Flow Rate	Max Nominal Pressure
AM3-RP-P-20/10	683.00	Pressure reducing in P	10-210 bar	60 L/min	320 bar
AM3-RP-AC-20/10	726.00	Pressure reducing in A with check	10-210 bar	60 L/min	320 bar
HD3-02-RP-BK	24.00	2 section bolt kit			
HD3-03-RP-BK	34.00	3 section bolt kit			

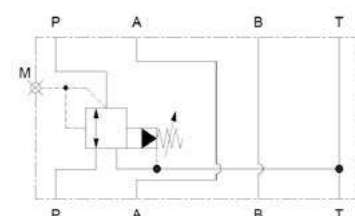
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RP-AC (w/ check)



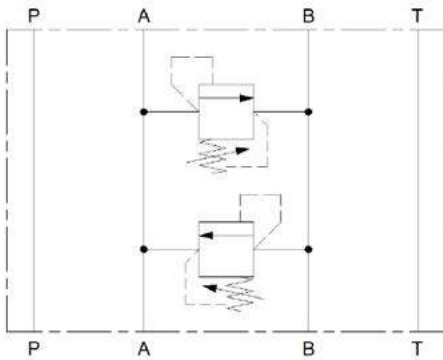
RP-P



TECH DATA

Cross Line Relief Modular Valve

Part #	List Price \$	Function	Max Pressure	Max Flow	Adj. Pressure Range	
KP6M/32AB2	512.00	Cross line relief on A+B	320 bar	20 L/min	5-40 bar	NEW



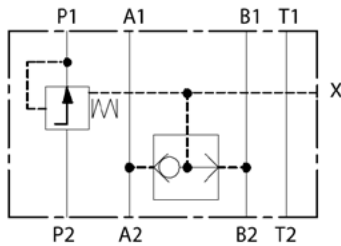
caproni
MADE IN EUROPE



TECH DATA

2-Way Pressure Compensator Modular Valve (Meter In)

Part #	List Price \$	Maximum Pressure	Maximum Flow	Fixed Differential Setting
AM3-PC-P/10	668.00	320 bar	32 L/min	10 bar
G1/4G1/4-ED	97.00	Adaptor for external LS connection		



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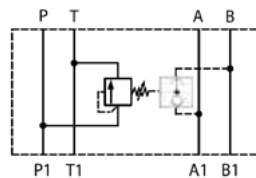
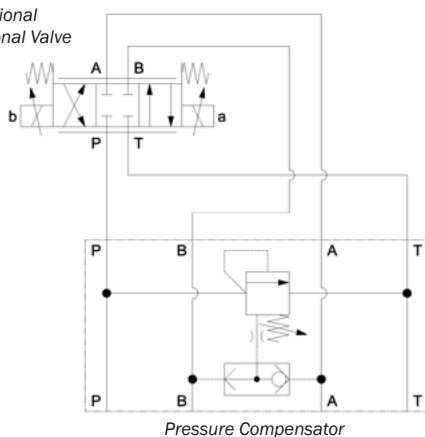


TECH DATA

3-Way Pressure Compensator Modular Valve with Load

Part #	List Price \$	Maximum Pressure	Maximum Flow	Adjustable Differential Setting
AM3-LS-P3/20	873.00	320 bar	40 L/min	5-40 bar

Proportional
Directional Valve



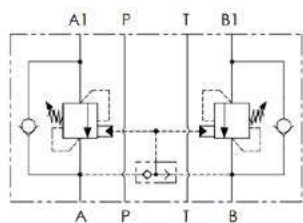
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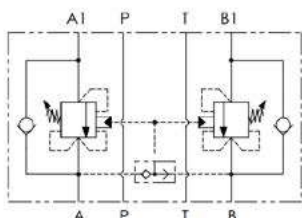
TECH DATA

Cetop 3 Counterbalance Modular Valves

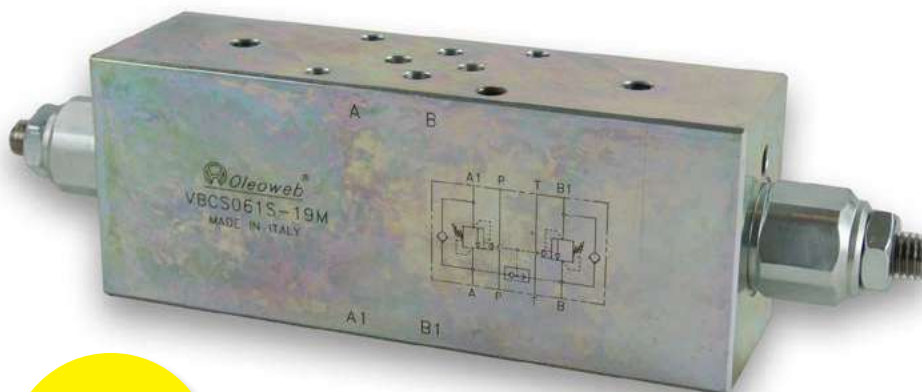
Part #	List Price \$	Maximum Pressure	Centre	Maximum Flow	Ratio
VBOS061S	483.00	210 bar	Open	40 L/min	1:4.25
VBOS062S	483.00	350 bar	Open	40 L/min	1:4.25
VBCT061S	561.00	210 bar	Closed	40 L/min	1:4.25
VBCT062S	561.00	350 bar	Closed	40 L/min	1:4.25



VBOS



VBCT



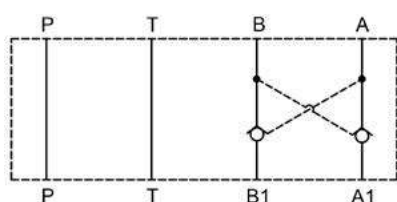
**Bolt kits
required - see
page 291**

OLEWOB
MADE IN EUROPE

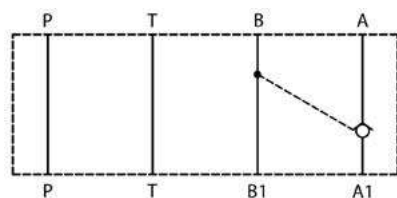
TECH DATA

Pilot Check Modular Valve

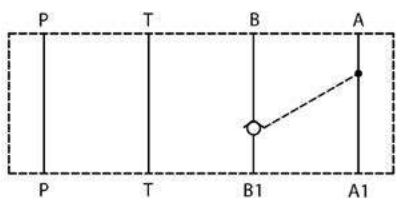
Part #	List Price \$	Function	Max Recommended Flow Rate	Max Nominal Pressure
AM3-CP-AB/10	384.00	Pilot check on A & B	60 L/min	320 bar
AM3-CP-A/10	356.00	Pilot check on A	60 L/min	320 bar
AM3-CP-B/10	356.00	Pilot check on B	60 L/min	320 bar



CP-AB



CP-A



CP-B



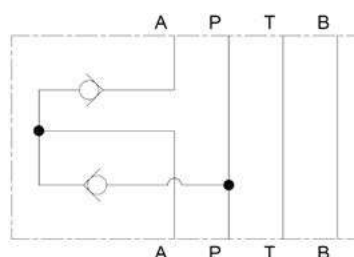
**Bolt kits
required - see
page 291**

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TECH DATA

Regenerative Modular Valve

Part #	List Price \$	Maximum Pressure	Maximum Flow	Function
AM3-RGT	431.00	250 bar	30 L/min	Flow from A-P



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**Bolt kits
required - see
page 291**

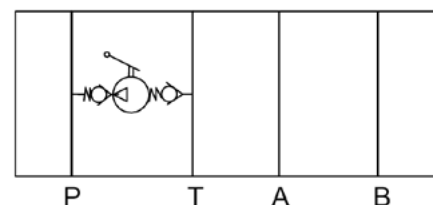
TECH DATA

Cetop 3 Modular Hand Pump Assembly

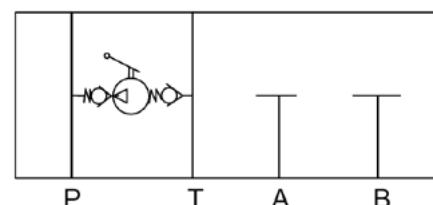
Includes handle

Part #	List Price \$	Displacement	Maximum Pressure	Cavity	
BS3T-A-CHP08-5	698.00	5cc	250 bar	SAE 08-2	NEW
BS3T-B-CHP08-5	698.00	5cc	250bar	SAE 08-2	NEW

MOCEN®



BS3T-A

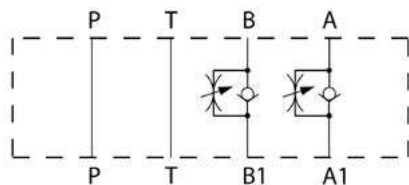


BS3T-B

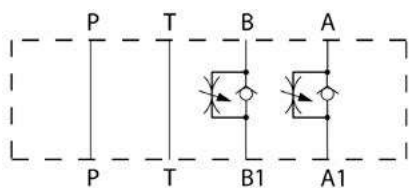
TECH DATA

Flow Control Modular Valve (Steel Body)

Part #	List Price \$	Function	Maximum Pressure	Maximum Flow
Z2FDS630-S	248.00	Flow control on A & B, meter in	250 bar	60 L/min
Z2FDS630-S2	248.00	Flow control on A & B, meter out	250 bar	60 L/min



S



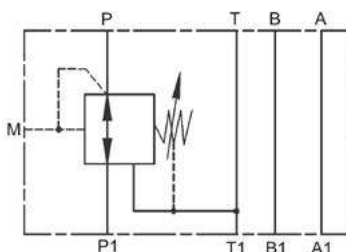
S2



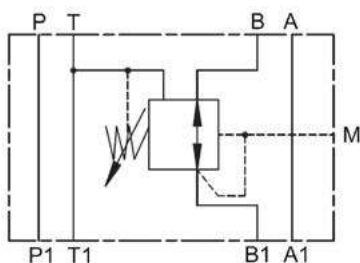
TECH DATA

Pressure Reducing Modular Valve (Steel Body)

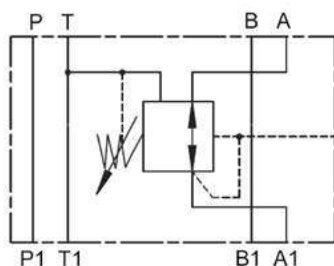
Part #	List Price \$	Function	Maximum Pressure	Maximum Flow	Adjustable Pressure Range
ZPR6DP2-30-210-Y-M	286.00	Pressure reducing in P	250 bar	30 L/min	70-210 bar
ZPR6DA2-30-210-Y-M	286.00	Pressure reducing in A	250 bar	30 L/min	70-210 bar
ZPR6DB2-30-210-Y-M	286.00	Pressure reducing in B	250 bar	30 L/min	70-210 bar



DP



DB



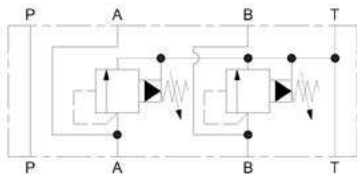
DA



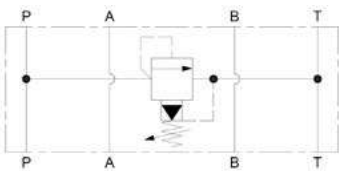
TECH DATA

Relief Modular Valve (Steel Body)

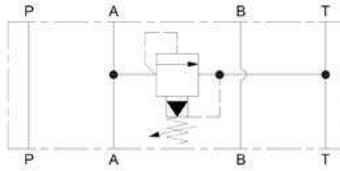
Part #	List Price \$	Function	Maximum Pressure	Maximum Flow	Adjustable Pressure Range
ZPB6VP-1-40-315	268.00	Relief on P	250 bar	40 L/min	70-250 bar
ZPB6VA-1-40-315	268.00	Relief on A	250 bar	40 L/min	70-250 bar
ZPB6VB-1-40-315	268.00	Relief on B	250 bar	40 L/min	70-250 bar
Z2PB6VC-1-40-315	447.00	Relief on A & B	250 bar	40 L/min	70-250 bar



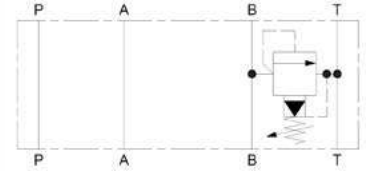
A & B



P



A



B

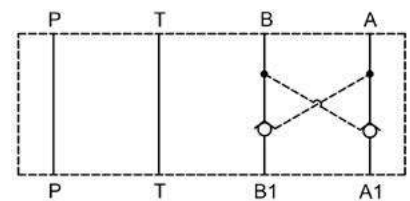
TECH DATA

Pilot Check Modular Valve

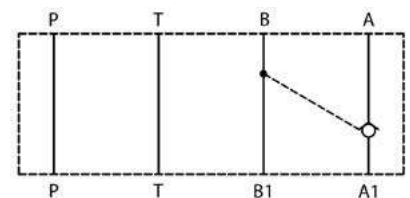
Part #	List Price \$	Function	Maximum Pressure	Maximum Flow
Z2DS6-50	234.00	Pilot check on A & B	250 bar	40 L/min
Z2DS6A-50	207.00	Pilot check on A	250 bar	40 L/min
Z2DS6B-50	207.00	Pilot check on B	250 bar	40 L/min



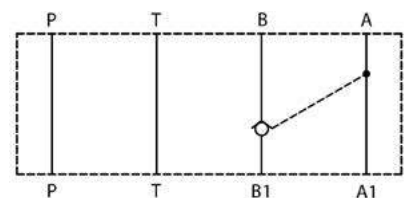
DS6



DS6A



DS6B



TECH DATA

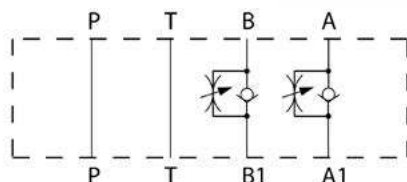
Flow Control Modular Valve (Meter In)

Part #	List Price \$	Function	Max Recommended Flow Rate	Max Nominal Pressure
AM5-FX-AB/10	665.00	Flow control on A & B, meter in	100 L/min	320 bar
AM5-FX-A/10	626.00	Flow control on A, meter in	100 L/min	320 bar
AM5-FX-B/10	626.00	Flow control on B, meter in	100 L/min	320 bar

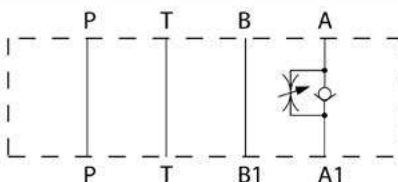
**Bolt kits
required - see
page 291**



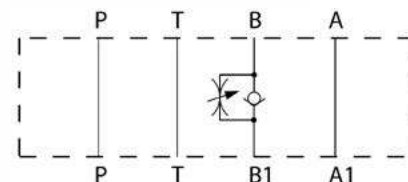
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FX-AB



FX-A



FX-B

TECH DATA

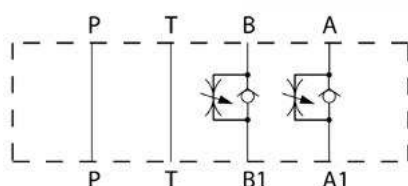
Flow Control Modular Valve (Meter Out)

Part #	List Price \$	Function	Max Recommended Flow Rate	Max Nominal Pressure
AM5-FC-AB/10	665.00	Flow control on A & B, meter out	100 L/min	320 bar
AM5-FC-A/10	626.00	Flow control on A, meter out	100 L/min	320 bar
AM5-FC-B/10	626.00	Flow control on B, meter out	100 L/min	320 bar

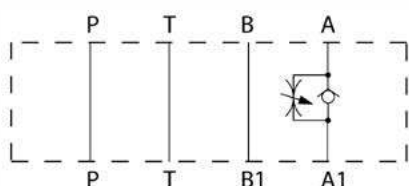
**Bolt kits
required - see
page 291**



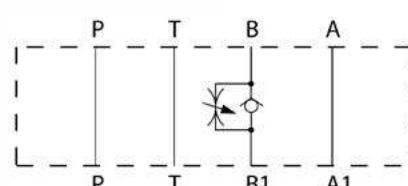
aidro
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FC-AB



FC-A



FC-B

TECH DATA

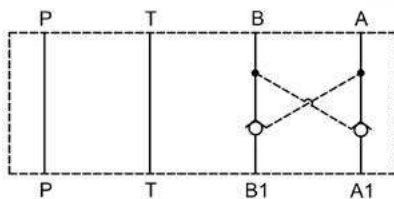
Pilot Check Modular Valve

Part #	List Price \$	Function	Max Recommended Flow Rate	Max Nominal Pressure
AM5-CP-AB/20	888.00	Pilot check on A & B	100 L/min	320 bar
AM5-CP-A/20	795.00	Pilot check on A	100 L/min	320 bar
AM5-CP-B/20	795.00	Pilot check on B	100 L/min	320 bar

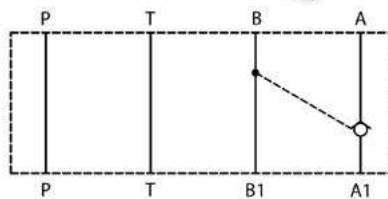
aidro
MADE IN EUROPE



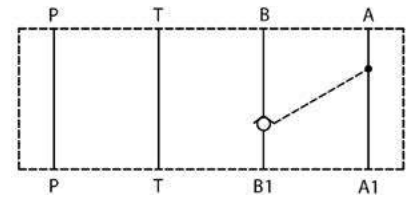
**Bolt kits
required - see
page 291**



CP-AB



CP-A



CP-B

TECH DATA

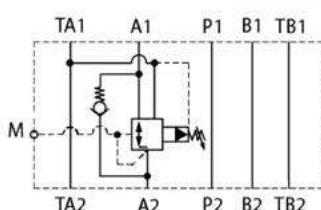
Pressure Reducing Modular Valve (Pilot Operated)

Part #	List Price \$	Function	Pressure Range	Max Recommended Flow Rate	Regulated Line Flow Rate	Max Nominal Pressure
AM5-RP-A-6.3/20	1609.00	Pilot operated w/ check	5-70 bar	100 L/min	80 L/min	320 bar
AM5-RP-B-6.3/20	1609.00	Pilot operated w/ check	5-70 bar	100 L/min	80 L/min	320 bar
AM5-RP-P-6.3/20	1187.00	Pilot operated	5-70 bar	100 L/min	80 L/min	320 bar
AM5-RP-A-16/20	1609.00	Pilot operated w/ check	10-160 bar	100 L/min	80 L/min	320 bar
AM5-RP-B-16/20	1609.00	Pilot operated w/ check	10-160 bar	100 L/min	80 L/min	320 bar
AM5-RP-P-16/20	1187.00	Pilot operated	10-160 bar	100 L/min	80 L/min	320 bar
AM5-RP-A-20/20	1609.00	Pilot operated w/ check	16-210 bar	100 L/min	80 L/min	320 bar
AM5-RP-B-20/20	1609.00	Pilot operated w/ check	16-210 bar	100 L/min	80 L/min	320 bar
AM5-RP-P-20/20	1187.00	Pilot operated	16-210 bar	100 L/min	80 L/min	320 bar

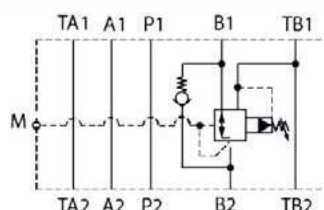
aidro
MADE IN EUROPE



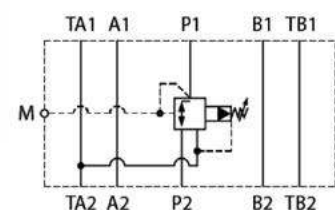
**Bolt kits
required - see
page 291**



RP-A (w/ check)



RP-B (w/ check)



RP-P

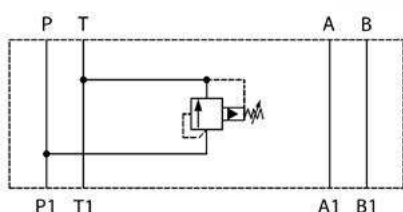
TECH DATA

Pilot Operated Pressure Relief Modular Valve

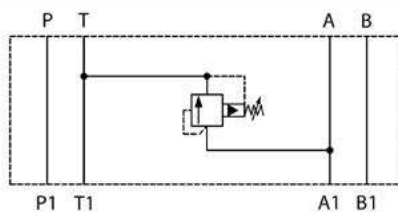
Part #	List Price \$	Function	Pressure Range	Max Recommended Flow Rate	Max Nominal Pressure
AM5-MP-P-6.3/10	781.00	Pilot operated relief on P	10-70 bar	100 L/min	320 bar
AM5-MP-A-6.3/10	818.00	Pilot operated relief on A	10-70 bar	100 L/min	320 bar
AM5-MP-BA-6.3-6.3/10	1231.00	Pilot operated relief on A & B	10-70 bar	100 L/min	320 bar
AM5-MP-P-12.5/10	781.00	Pilot operated relief on P	10-140 bar	100 L/min	320 bar
AM5-MP-A-12.5/10	818.00	Pilot operated relief on A	10-140 bar	100 L/min	320 bar
AM5-MP-BA-12.5-12.5/10	1231.00	Pilot operated relief on A & B	10-140 bar	100 L/min	320 bar
AM5-MP-P-20/10	781.00	Pilot operated relief on P	20-210 bar	100 L/min	320 bar
AM5-MP-A-20/10	818.00	Pilot operated relief on A	20-210 bar	100 L/min	320 bar
AM5-MP-BA-20-20/10	1231.00	Pilot operated relief on A & B	20-210 bar	100 L/min	320 bar
AM5-MP-P-32/10	781.00	Pilot operated relief on P	20-320 bar	100 L/min	320 bar
AM5-MP-A-32/10	818.00	Pilot operated relief on A	20-320 bar	100 L/min	320 bar
AM5-MP-BA-32-32/10	1231.00	Pilot operated relief on A & B	20-320 bar	100 L/min	320 bar

aidro
MADE IN EUROPE

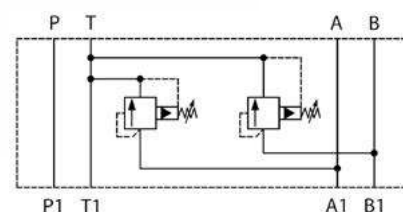
Bolt kits
required - see
page 291



MP-P



MP-A



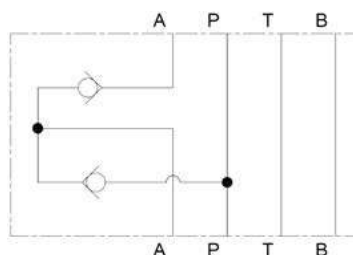
MP-BA

TECH DATA

Regenerative Modular Valve

Part #	List Price \$	Maximum Pressure	Maximum Flow	Function
AM5-RGT	672.00	210 bar	80 L/min	Flow from B-P

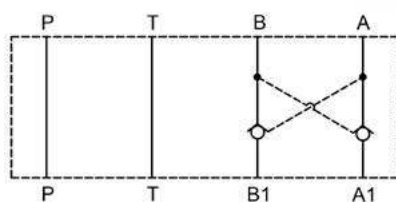
aidro
MADE IN EUROPE



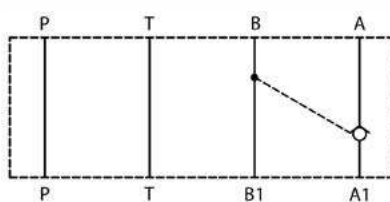
TECH DATA

Pilot Check Modular Valve (Steel Body)

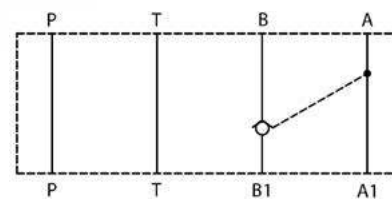
Part #	List Price \$	Function	Maximum Pressure	Maximum Flow
Z2DS10-10	345.00	Pilot check on A & B	250 bar	80 L/min
Z2DS10A-10	331.00	Pilot check on A	250 bar	80 L/min
Z2DS10B-10	331.00	Pilot check on B	250 bar	80 L/min



DS10



DS10A

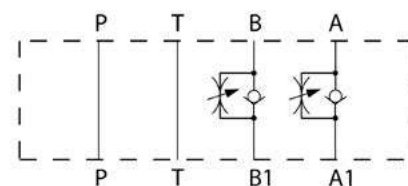


DS10B

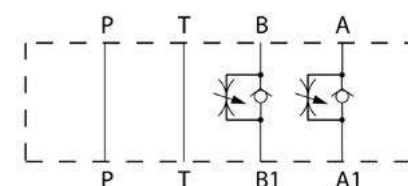
TECH DATA

Flow Control Modular Valve (Steel Body)

Part #	List Price \$	Function	Maximum Pressure	Maximum Flow
Z2FDS1030-S	384.00	Flow control on A & B, meter in	250 bar	80 L/min
Z2FDS1030-S2	384.00	Flow control on A & B, meter out	250 bar	80 L/min



S

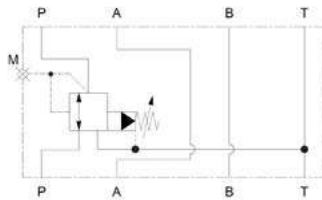


S2

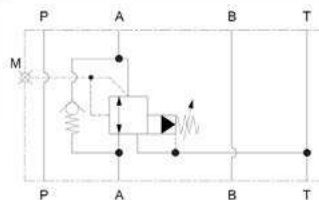
TECH DATA

Pressure Reducing Modular Valve (Steel Body)

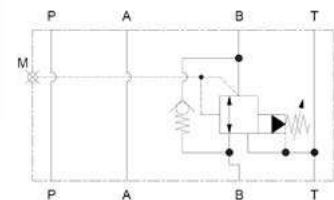
Part #	List Price \$	Function	Maximum Pressure	Maximum Flow	Adjustable Pressure Range
ZPR10DP2-30-210-Y-M	553.00	Pressure reducing in P	250 bar	60 L/min	70-210 bar
ZPR10DA2-30-210-Y-M	553.00	Pressure reducing in A	250 bar	60 L/min	70-210 bar
ZPR10DB2-30-210-Y-M	553.00	Pressure reducing in B, 70	250 bar	60 L/min	70-210 bar



P



A

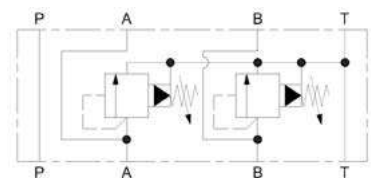


B

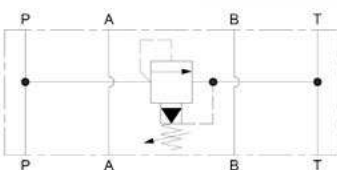
TECH DATA

Relief Modular Valve (Steel Body)

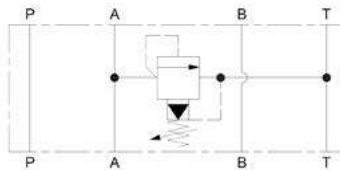
Part #	List Price \$	Function	Maximum Pressure	Maximum Flow	Adjustable Pressure Range
Z2PB10VP-1-40-315	379.00	Relief on P	250 bar	80 L/min	70-250 bar
Z2PB10VA-1-40-315	347.00	Relief on A	250 bar	80 L/min	70-250 bar
Z2PB10VB-1-40-315	347.00	Relief on B	250 bar	80 L/min	70-250 bar
Z2PB10VC-1-40-315	505.00	Relief on A & B	250 bar	80 L/min	70-250 bar



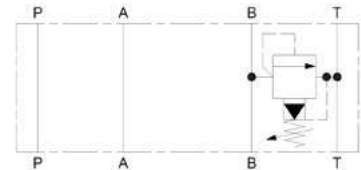
A & B



P



A

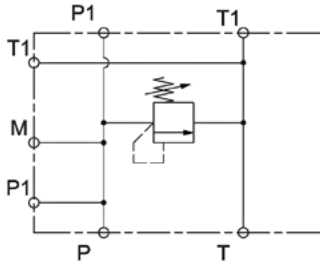


B

TECH DATA

P+T Subplate with Relief Valve Cavity (relief valve sold separately)

Part #	List Price \$	Max Flow	P-T	A-B	Gauge Port	Relief	Material
BPT3A	215.00	30 L/min	1/2" BSPP	1/2" BSPP	1/4" BSPP	SAE8-2	Aluminium
BPT5A	362.00	80 L/min	3/4" BSPP	3/4" BSPP	1/4" BSPP	SAE10-2	Aluminium



BPT5A



BPT3A



Gaskets on page 312

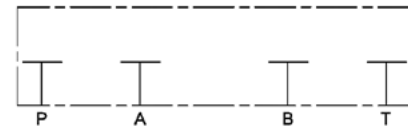
TECH DATA

Cetop 3 Crossover Plate, Subplate & End Plate

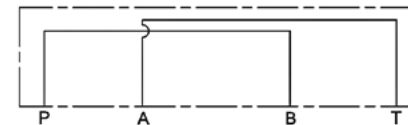
Part #	List Price \$	Description	Material
ES06-00-10	93.00	Cetop 3 blanking plate	Steel
ES06-00-20-3	162.00	Cetop 3 crossover plate P-B T-A	Steel
ES06-00-20-6	172.00	Cetop 3 series manifold crossover plate, P-T ported, A-B blocked	Steel
ES06-01-14-1	162.00	Cetop 3 subplate A + B ports 1/4" BSPP, through port with gauge ports A + B	Steel
ES06-01-14-4	162.00	Cetop 3 subplate P + T ports 1/4" BSPP, through port with gauge ports P + T	Steel



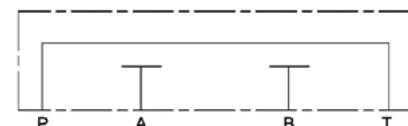
ES06-01-14-1



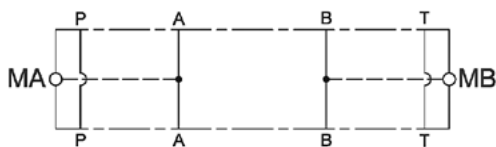
ES-06-00-10



ES06-00-20-3



ES06-00-20-6



ES06-01-14-1

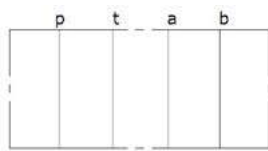


ES06-01-14-4

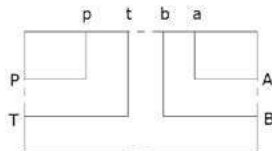
TECH DATA

Cetop 3 Manifold Subplate without Relief Valve

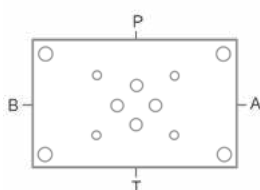
Part #	List Price \$	Port Position A/B/P/T	Port Size	Nominal Flow	Maximum Flow	Material
EA06-07-38	150.00	Rear	3/8" BSPP	30 L/min	70 L/min	Aluminium
ES06-07-38	186.00	Rear	3/8" BSPP	30 L/min	70 L/min	Steel
ES06-08-38	254.00	Side	3/8" BSPP	30 L/min	70 L/min	Steel
ES06-09-38	233.00	Side	3/8" BSPP	30 L/min	70 L/min	Steel
EA06-09-38	173.00	Side	3/8" BSPP	30 L/min	70 L/min	Aluminium
EA06-08-38	194.00	Side Parallel	3/8" BSPP	30 L/min	70 L/min	Aluminium



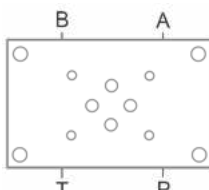
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06-08-38, 06-09-38



EA06-09-38



EA06-08-38



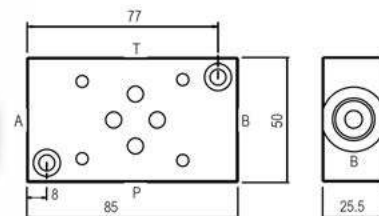
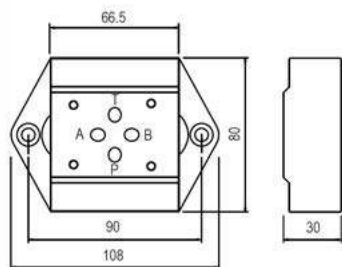
EA06-08-38



TECH DATA

Cetop 3 Manifold Subplate without Relief Valve

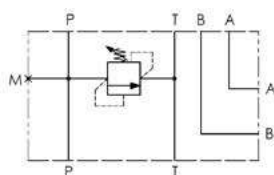
Part #	List Price \$	Port Position A/B/P/T	Port Size	Nominal Flow	Maximum Flow	Material
G342/01	96.00	Rear	3/8" BSPP	30 L/min	70 L/min	Steel
G342/01-SE	96.00	Side	3/8" BSPP	30 L/min	70 L/min	Steel



TECH DATA

Cetop 3 Manifold Subplate with Relief Valve

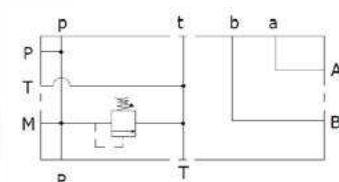
Part #	List Price \$	Relief (bar)	A-B (BSPP)	P-T (BSPP)	Unloader Cavity	Gauge Port (BSPP)	Nominal Flow	Max Flow	Material
EA06-10-38-1-3-H	351.00	50-215 (M20)	3/8"	3/8"	-	1/4"	30 L/min	40 L/min	Aluminium
EA06-10-12-1-3-H	351.00	20-215 (M20)	1/2"	1/2"	-	1/4"	30 L/min	40 L/min	Aluminium
EA06-10-12-1-3-H-DRV-S10	425.00	10-240 (SAE10-2)	1/2"	1/2"	-	1/4"	30 L/min	80 L/min	Aluminium
BS3C2	243.00	20-210	3/8"	1/2"	-	1/4"	30 L/min	40 L/min	Aluminium



BS3C2



EA06-10



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Gaskets on page 312

TECH DATA

Cetop 3 Bar Manifold (1/2" BSPP Ports P+T)

Part #	List Price \$	Stations	Relief Bar	A-B	P-T	Unloader Cavity	Gauge Port	Nominal Flow	Max Flow	Material
EA06-14-38-2-4-3-H	576.00	2	50-220 (M20)	3/8" BSPP	1/2" BSPP	Yes (SAE8-2)	1/4" BSPP	30 L/min	40 L/min	Aluminium
EA06-14-38-3-4-3-H	706.00	3	50-220 (M20)	3/8" BSPP	1/2" BSPP	Yes (SAE8-2)	1/4" BSPP	30 L/min	40 L/min	Aluminium
EA06-14-38-4-4-3-H	825.00	4	50-220 (M20)	3/8" BSPP	1/2" BSPP	Yes (SAE8-2)	1/4" BSPP	30 L/min	40 L/min	Aluminium
EA06-14-38-5-4-3-H	911.00	5	50-220 (M20)	3/8" BSPP	1/2" BSPP	Yes (SAE8-2)	1/4" BSPP	30 L/min	40 L/min	Aluminium
EA06-14-38-6-4-3-H	1030.00	6	50-220 (M20)	3/8" BSPP	1/2" BSPP	Yes (SAE8-2)	1/4" BSPP	30 L/min	40 L/min	Aluminium
EA06-14-38-7-4-3-H	1167.00	7	50-220 (M20)	3/8" BSPP	1/2" BSPP	Yes (SAE8-2)	1/4" BSPP	30 L/min	40 L/min	Aluminium
EA06-14-38-8-4-3-H	1343.00	8	50-220 (M20)	3/8" BSPP	1/2" BSPP	Yes (SAE8-2)	1/4" BSPP	30 L/min	40 L/min	Aluminium

 Unload valve not included

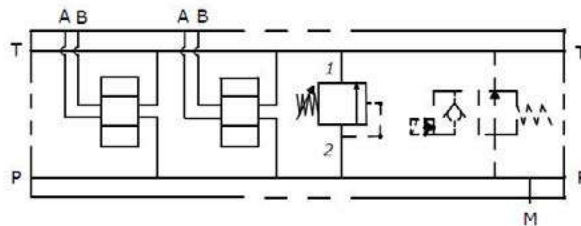
Accessories

Part #	List Price \$	Description
CPS-08	47.00	Steel blanking plug SAE08-2 cavity
EC082C-ONN	271.00	Normally open cartridge valve, 40 L/min, SAE08-2 cavity
EC36012DC	42.00	12v DC coil, 22W
EC36024DC	42.00	24v DC coil, 22W

Unload valve options: page 126



Gaskets on page 312



TECH DATA

Cetop 3 High Flow Bar Manifold (3/4" BSPP Ports P+T)

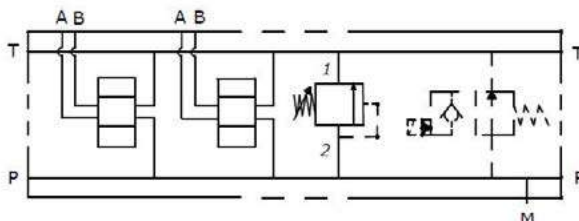
Part #	List Price \$	Stations	Relief Bar	A-B	P-T	Unloader Cavity	Gauge Port	Flow	Material
EA06-28-12-2-4-3-H	858.00	2	10-240 (SAE10-2)	1/2" BSPP	3/4" BSPP	Yes (SAE10-2)	1/4" BSPP	80 L/min	Aluminium
EA06-28-12-3-4-3-H	992.00	3	10-240 (SAE10-2)	1/2" BSPP	3/4" BSPP	Yes (SAE10-2)	1/4" BSPP	80 L/min	Aluminium
EA06-28-12-4-4-3-H	1138.00	4	10-240 (SAE10-2)	1/2" BSPP	3/4" BSPP	Yes (SAE10-2)	1/4" BSPP	80 L/min	Aluminium
EA06-28-12-5-4-3-H	1274.00	5	10-240 (SAE10-2)	1/2" BSPP	3/4" BSPP	Yes (SAE10-2)	1/4" BSPP	80 L/min	Aluminium
EA06-28-12-6-4-3-H	1414.00	6	10-240 (SAE10-2)	1/2" BSPP	3/4" BSPP	Yes (SAE10-2)	1/4" BSPP	80 L/min	Aluminium

 Unload valve not included

Accessories

Part #	List Price \$	Description
CPS-10	64.00	Steel blanking plug SAE10-2 cavity
EC102A-ONN	313.00	Normally open cartridge valve, 70 L/min, SAE10-2 cavity
EC36012DC	42.00	12v DC coil, 22W
EC36024DC	42.00	24v DC coil, 22W

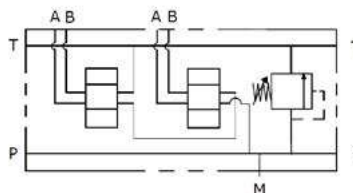
Unload valve options: page 126



TECH DATA

Cetop 3 Series Bar Manifold (1/2" BSPP Ports P+T)

Part #	List Price \$	Stations	Relief Bar	A-B	P-T	Unloader Cavity	Gauge Port	Nominal Flow	Max Flow	Material
EA06-19-38-2-1-3-H	655.00	2	50-215 (M20)	3/8" BSPP	1/2" BSPP	No	1/4" BSPP	30 L/min	40 L/min	Aluminium
EA06-19-38-3-1-3-H	814.00	3	50-215 (M20)	3/8" BSPP	1/2" BSPP	No	1/4" BSPP	30 L/min	40 L/min	Aluminium
EA06-19-38-4-1-3-H	985.00	4	50-215 (M20)	3/8" BSPP	1/2" BSPP	No	1/4" BSPP	30 L/min	40 L/min	Aluminium



Gaskets on page 312

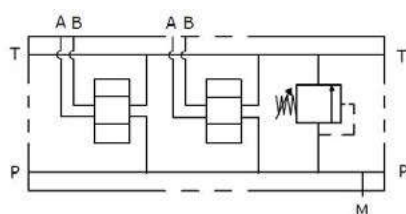
TECH DATA

Cetop 3 Bar Manifold with Relief Valve

Part #	List Price \$	Stations	Max Flow	P-T	A-B	Relief	Material
BM2AC2	449.00	2	40 L/min	1/2" BSPP	3/8" BSPP	20-210 bar *	Aluminium
BM3AC2	532.00	3	40 L/min	1/2" BSPP	3/8" BSPP	20-210 bar *	Aluminium
BM4AC2	587.00	4	40 L/min	1/2" BSPP	3/8" BSPP	20-210 bar *	Aluminium
BM5AC2	737.00	5	40 L/min	1/2" BSPP	3/8" BSPP	20-210 bar *	Aluminium
BM6AC2	792.00	6	40 L/min	1/2" BSPP	3/8" BSPP	20-210 bar *	Aluminium

* 10-90 bar available on request

BM2AC2



BM3AC2



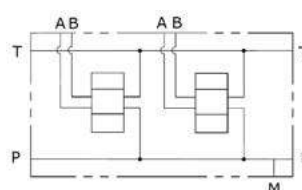
TECH DATA

Cetop 3 Bar Manifold without Relief Valve

Part #	List Price \$	Stations	Max Flow	P-T	A-B	Max Pressure	Material
BM2A	285.00	2	40 L/min	1/2" BSPP	3/8" BSPP	210 bar	Aluminium
BM3A	355.00	3	40 L/min	1/2" BSPP	3/8" BSPP	210 bar	Aluminium
BM4A	427.00	4	40 L/min	1/2" BSPP	3/8" BSPP	210 bar	Aluminium
BM5A	532.00	5	40 L/min	1/2" BSPP	3/8" BSPP	210 bar	Aluminium
BM6A	583.00	6	40 L/min	1/2" BSPP	3/8" BSPP	210 bar	Aluminium



BM4A



BM2A



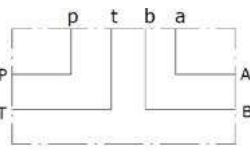
TECH DATA

Cetop 5 Manifold Subplate without Relief

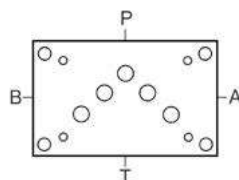
Part #	List Price \$	Port Position A-B-P-T	Port Size P-T-A-B	Flow	Material
EA10-02-34	251.00	Side	3/4" BSPP	80 L/min	Aluminium
ES10-02-34	384.00	Side	3/4" BSPP	80 L/min	Steel
ES10-01-34	384.00	Rear	3/4" BSPP	80 L/min	Steel



01-34



02-34



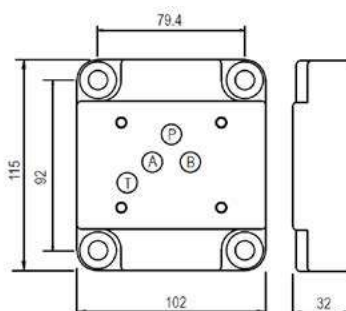
02-34



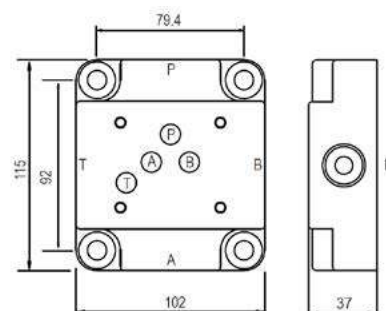
TECH DATA

Cetop 5 Manifold Subplate without Relief

Part #	List Price \$	Port Position A-B-P-T	Port Size P-T-A-B	Flow	Material
G67/01	181.00	Rear	1/2" BSPP	70 L/min	Steel
G67/01-SE	181.00	Side	1/2" BSPP	70 L/min	Steel



/01



/01-SE

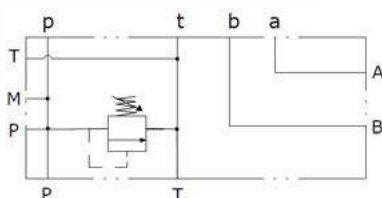
TECH DATA

Cetop 5 Manifold Subplate with Relief

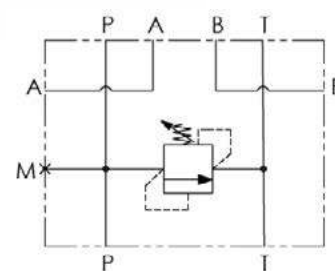
Part #	List Price \$	Max Flow	Port Size P-T-A-B	Gauge Port	Relief	Material
EA10-09-34-1-3-H	628.00	80 L/min	3/4" BSPP	1/4" BSPP	75-250 (M26)	Aluminium
BS5C2	344.00	80 L/min	1/2" BSPP	1/4" BSPP	20-210 bar	Aluminium



EA10



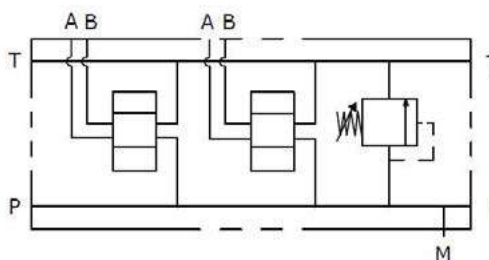
BS5C2



TECH DATA

Cetop 5 Bar Manifold

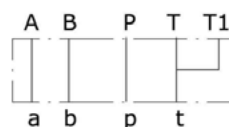
Part #	List Price \$	Stations	Relief Bar	A-B	P-T	Unloader Cavity	Gauge Port	Flow	Material
EA10-06-34-2-1-3-H	670.00	2	70-250 (M26)	3/4" BSPP	3/4" BSPP	No	1/4" BSPP	80 L/min	Aluminium
EA10-06-34-3-1-3-H	866.00	3	70-250 (M26)	3/4" BSPP	3/4" BSPP	No	1/4" BSPP	80 L/min	Aluminium
EA10-06-34-4-1-3-H	1026.00	4	70-250 (M26)	3/4" BSPP	3/4" BSPP	No	1/4" BSPP	80 L/min	Aluminium
EA10-06-34-5-1-3-H	1382.00	5	70-250 (M26)	3/4" BSPP	3/4" BSPP	No	1/4" BSPP	80 L/min	Aluminium
EA10-06-34-6-1-3-H	1683.00	6	70-250 (M26)	3/4" BSPP	3/4" BSPP	No	1/4" BSPP	80 L/min	Aluminium



TECH DATA

Cetop 5 to Cetop 3 Reducing Subplate

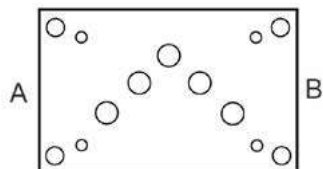
Part #	List Price \$	Description	Material
EA610-05-0	173.00	Cetop 5 to 3 reducing subplate	Aluminium



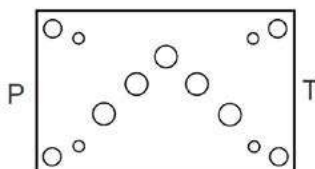
TECH DATA

Cetop 5 Crossover Plate, Subplate & Endplate

Part #	List Price \$	Description	Material
ES10-00-10	126.00	Cetop 5 blanking plate	Steel
ES10-00-20-3	194.00	Cetop 5 crossover plate P-B T-A	Steel
ES10-10-14-1	184.00	Cetop 5 subplate A + B ports 1/4" BSPP	Steel
ES10-10-14-4	184.00	Cetop 5 subplate P + T ports 1/4" BSPP	Steel



14-1



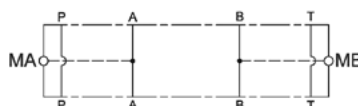
14-4



ES-10-00-10



ES10-00-20-3



ES10-10-14-1



ES10-01-14-4

TECH DATA

Manifold Gaskets

Part #	List Price \$	Description	Compatible Manifolds	
21.00	20.00	Gasket to suit single cetop 3 or P+T manifold	BPT3A	EA06-10
19.00	18.00	Gasket to suit single cetop 3 or 2-6 station manifold	EA06-14	EA06-19
23.00	22.00	Gasket to suit single cetop 5 or 2-6 station manifold	EA10-06	
27.00	26.00	Gasket to suit single cetop 5 or P+T manifold	EA10-09-34-1-3-H	BPT5A

TECH DATA

Direct Acting Relief Cartridge SAE-08

Part #	List Price \$	Cavity	Pressure Range	Maximum Flow
DRV-S08-04-60-N-H	99.00	SAE8-2	16-160 bar	30 L/min
DRV-S08-04-135-N-H	99.00	SAE8-2	25-135 bar	30 L/min
DRV-S08-04-220-N-H	99.00	SAE8-2	50-220 bar	30 L/min
DRV-S08-04-350-N-H	99.00	SAE8-2	120-350 bar	30 L/min
CPS-08	47.00	Steel blanking plug, SAE8-2 cavity		



TECH DATA

Direct Acting Relief Cartridge SAE-10

Part #	List Price \$	Cavity	Pressure Range	Maximum Flow
DRV-S10-02-110-N-H	159.00	SAE10-2	5-110 bar	80 L/min
DRV-S10-02-240-N-H	159.00	SAE10-2	10-240 bar	80 L/min
DRV-S10-02-350-N-H	159.00	SAE10-2	50-350 bar	80 L/min
CPS-10	64.00	Steel blanking plug, SAE10-2 cavity		



TECH DATA

Direct Acting Relief Cartridge M20

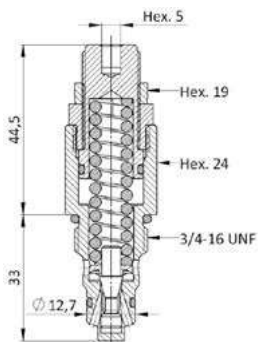
Part #	List Price \$	Cavity	Pressure Range	Maximum Flow
DRV-M20-02-055-N-H	120.00	M20	5-55 bar	30 L/min
DRV-M20-02-110-N-H	120.00	M20	25-110 bar	30 L/min
DRV-M20-02-215-N-H	120.00	M20	50-215 bar	30 L/min
DRV-M20-02-350-N-H	120.00	M20	100-350 bar	30 L/min
CPS-M20	29.00	Steel blanking plug, M20 cavity		



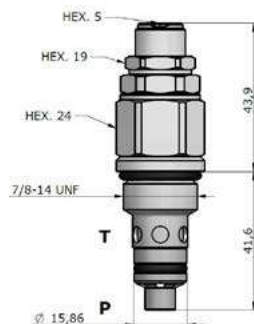
TECH DATA

Direct Acting Relief Cartridge M26

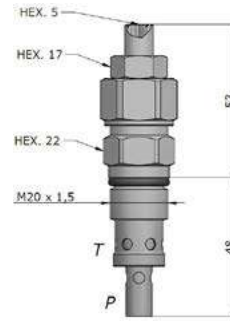
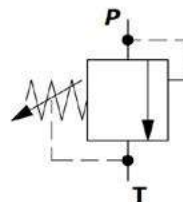
Part #	List Price \$	Cavity	Pressure Range	Maximum Flow
DRV-M26-01-055-N-H	159.00	M26	5-55 bar	80 L/min
DRV-M26-01-110-N-H	159.00	M26	25-110 bar	80 L/min
DRV-M26-01-250-N-H	159.00	M26	75-250 bar	80 L/min
CPS-M26	39.00	Steel blanking plug, M26 cavity		



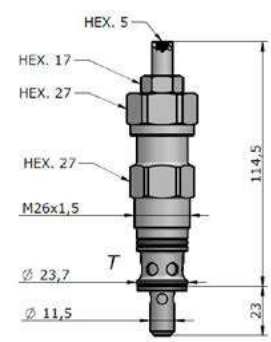
SAE-08



SAE-10



M20



M26