

abco

COMPONENTS FOR HYDRAULICS



www.abco.it

EXPORT PRICELIST AP2019/07

EXPORT PRICELIST AP2019/07

EXPORT PRICELIST AP2019/07

Valid since **1st July 2019**

Delivery terms: **EX WORKS**

Individual packing included

Global packing, handling and cash commissions: 1% invoice amount (Italy) - 2% invoice amount (Export)

Codes indicated in **black** colour are standard and currently available from stock.

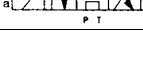
Codes in **grey** colour are in phase-out from standard line, may have a longer delivery time.

PRODUCTION RANGE

A selection of components produced by Abco group factories,
chosen for dealers and specialists, available from our stocks for quick delivery.

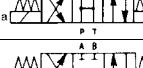
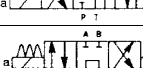
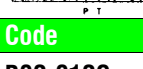
Different executions and features can be supplied on request with short delivery time.

SOLENOID OPERATED VALVES - DIRECTIONAL CONTROL - Ref.AD-116

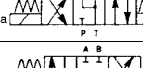
Body ISO 03 NG06 Coils 01	Code	Q _{max} (l/min)	P _{max} (bar)	Size	Voltage	€
 	HD33-EF-1LL-024C	40	250	ISO 03 - NG06	24V DC	96,60
	HD33-EF-0ML-024C	40	250	ISO 03 - NG06	24V DC	96,60
	HD33-EF-0C-024C	40	250	ISO 03 - NG06	24V DC	119,80
	HD33-EF-1C-024C	40	250	ISO 03 - NG06	24V DC	119,80
	HD33-EF-3C-024C	40	250	ISO 03 - NG06	24V DC	119,80
	HD33-EF-4C-024C	40	250	ISO 03 - NG06	24V DC	139,20

Electrovalve price includes coils 24V DC (available at same price with coil tension 12V DC => code ends with "-012C")

Spare coils: see page.13, codes B01-012C, B01-024C

Body ISO 03 NG06 Coils 02	Code	Q _{max} (l/min)	P _{max} (bar)	Size	Ref.	€
NEW  	HD3-ES-1LL-****/20	60	320	ISO 03 - NG06	AD-115/2	85,50
	HD3-ES-0ML-****/20	60	320	ISO 03 - NG06	AD-115/2	85,50
	HD3-ES-0C-****/20	60	320	ISO 03 - NG06	AD-115/2	94,00
	HD3-ES-1C-****/20	60	320	ISO 03 - NG06	AD-115/2	94,00
	HD3-ES-3C-****/20	60	320	ISO 03 - NG06	AD-115/2	94,00
	HD3-ES-4C-****/20	60	320	ISO 03 - NG06	AD-115/2	113,30
COILS	Code	Voltage	€	Code	Voltage	€
	B02-012C	ISO 02 12V DC	16,00	B02-115A	ISO 02 115V AC	27,00
	B02-024C	ISO 02 24V DC	16,00	B02-230A	ISO 02 230V AC	27,00

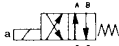
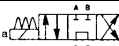
Electrovalve price = body price + coil(s)' price

Body ISO 03 NG06 Coils 03	Code	Q _{max} (l/min)	P _{max} (bar)	Size	Ref.	€
 	HD3-ES-1LL-****/10	80	350	ISO 03 - NG06	AD-110/2	99,00
	HD3-ES-0ML-****/10	80	350	ISO 03 - NG06	AD-110/2	99,00
	HD3-ES-1N-****/10	80	350	ISO 03 - NG06	AD-110/2	132,00
	HD3-ES-0C-****/10	80	350	ISO 03 - NG06	AD-110/2	110,00
	HD3-ES-1C-****/10	80	350	ISO 03 - NG06	AD-110/2	110,00
	HD3-ES-3C-****/10	80	350	ISO 03 - NG06	AD-110/2	110,00
	HD3-ES-4C-****/10	80	350	ISO 03 - NG06	AD-110/2	130,00
COILS	Code	Voltage	€	Code	Voltage	€
	B03-012C	ISO 03 12V DC	19,00	B03-115A	ISO 03 115V AC	30,00
	B03-024C	ISO 03 24V DC	19,00	B03-230A	ISO 03 230V AC	30,00

Electrovalve price = body price + coil(s)' price

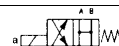
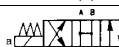
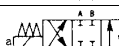
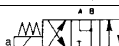
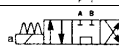
(pricing sample of bisolenoid valve with 24V DC coils: HD3-ES-3C-****/20 + 2 x B02-024C, code HD3-ES-3C-024C/20) = 94,00 € + 2x16,00 € = 126,00 €)

SOLENOID OPERATED VALVES - DIRECTIONAL CONTROL

Body ISO 02 NG04	Code	Q _{max} (l/min)	P _{max} (bar)	Size	Ref.	€
	 HD2-ES-1LL-****	30	320	ISO 02 - NG04	AD-100	88,00
	 HD2-ES-OML-****	30	320	ISO 02 - NG04	AD-100	88,00
	 HD2-ES-0C-****	30	320	ISO 02 - NG04	AD-100	97,00
	 HD2-ES-1C-****	30	320	ISO 02 - NG04	AD-100	97,00
	 HD2-ES-3C-****	30	320	ISO 02 - NG04	AD-100	97,00
	 HD2-ES-4C-****	30	320	ISO 02 - NG04	AD-100	115,00
COILS	Code	Voltage	€	Code	Voltage	€
	B02-012C	ISO 02 12V DC	16,00	B02-115A	ISO 02 115V AC	27,00
	B02-024C	ISO 02 24V DC	16,00	B02-230A	ISO 02 230V AC	27,00

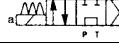
Electrovalve price = body price + coil(s)' price

SOLENOID OPERATED VALVES - DIRECTIONAL CONTROL

Body ISO 05 NG10 Coils 05	Code	Q _{max} (l/min)	P _{max} (bar)	Size	Ref.	€
	 HD5-ES-1LL-****/20	140	350	ISO 05 - NG10	AD-120/2	161,00
	 HD5-ES-OML-****/20	140	350	ISO 05 - NG10	AD-120/2	161,00
	 HD5-ES-0C-****/20	140	350	ISO 05 - NG10	AD-120/2	178,00
	 HD5-ES-1C-****/20	140	350	ISO 05 - NG10	AD-120/2	178,00
	 HD5-ES-3C-****/20	140	350	ISO 05 - NG10	AD-120/2	178,00
	 HD5-ES-4C-****/20	140	350	ISO 05 - NG10	AD-120/2	223,00
COILS	Code	Voltage	€	Code	Voltage	€
	B05-012C	ISO 05 12V DC	45,00	B05-115A	ISO 05 115V AC	56,00
	B05-024C	ISO 05 24V DC	45,00	B05-230A	ISO 05 230V AC	56,00

Electrovalve price = body price + coil(s)' price

SOLENOID OPERATED VALVES - DIRECTIONAL CONTROL

Body ISO 05 NG10 Coils 03	Code	Q _{max} (l/min)	P _{max} (bar)	Size	Ref.	€
	 HD5-ED-1LL-024C	100	320	ISO 05 - NG10	AD-125	189,00
	 HD5-ED-OML-024C	100	320	ISO 05 - NG10	AD-125	189,00
	 HD5-ED-0C-024C	100	320	ISO 05 - NG10	AD-125	230,00
	 HD5-ED-1C-024C	100	320	ISO 05 - NG10	AD-125	230,00
	 HD5-ED-3C-024C	100	320	ISO 05 - NG10	AD-125	230,00
	 HD5-ED-4C-024C	100	320	ISO 05 - NG10	AD-125	274,00

Electrovalve price includes coils 24V DC (available at same price with coil tension 12V DC => code ends with "-012C")

Available coils for AC current: consider +10,00€ on monosolenoid, +20,00€ on bisolenoid valves (code end will become "-115A" or "-230A")

Spare coils: see page.4, codes B03-012C, B03-024C, B03-115A, B03-230A

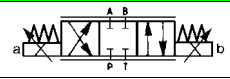
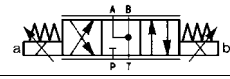
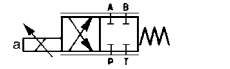
ISO 4400 PLUGS (Ref. AZ-100)

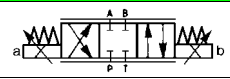
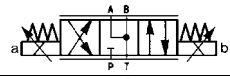
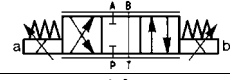
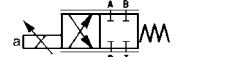
Code	Cable connection	Poles	Colour	Max conductor section	€/Pc
KA-132000B1	PG 11 (8-10mm)	2+G	Black	3 x 1,5 mm ²	1,60

	Code	Circuit	Poles	Cable conn.	Input voltage (V)	Colour	€/Pc
	KA-132D54T1	Diode + yellow LED	2+G	PG 11	12-24 DC	Transparent	4,80
	KA-132T54T9	Transil + yellow LED	2+G	PG 11	24 DC	Transparent	6,90
	KA-132R12B1	Current Rectifier	2+G	PG 11	115 AC	Black	6,90
	KA-132R13B1	Current Rectifier	2+G	PG 11	230 AC	Black	6,90
	KA-132L34T1	Bipolar yellow LED	2+G	PG 11	12-24 AC/DC	Transparent	4,80
	KA-132L35T1	Bipolar yellow LED	2+G	PG 11	115 AC/DC	Transparent	4,80
	KA-132L36T1	Bipolar yellow LED	2+G	PG 11	230 AC/DC	Transparent	4,80
	KA-132V54T1	Varistor + yellow LED	2+G	PG 11	12-24 AC/DC	Transparent	5,30

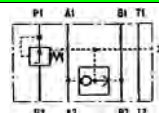
Minimum quantity: 1box (100 pcs)

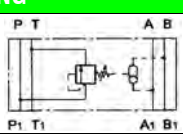
PROPORTIONAL SOLENOID OPERATED VALVES

ISO 03 NG06 4-WAY CONTROL	Code	Q _{nom} (l/min)	P _{max} (bar)	Ports	Ref.	€
 	HD3-PS-1PC	32	320	ISO 03	HD-P3S	319,00
 	HD3-PS-3PC	32	320	ISO 03	HD-P3S	319,00
 	HD3-PS-1PML	32	320	ISO 03	HD-P3S	248,00

ISO 05 NG10 4-WAY CONTROL	Code	Q _{nom} (l/min)	P _{max} (bar)	Ports	Ref.	€
 	HD5-PS-1PC	60	320	ISO 05	HD-P5S	616,00
 	HD5-PS-3PC	60	320	ISO 05	HD-P5S	616,00
 	HD5-PS-7PC	60	320	ISO 05	HD-P5S	616,00
 	HD5-PS-1PML	60	320	ISO 05	HD-P5S	505,00

PRESSURE COMPENSATOR VALVES

2-WAY	Code	Control	P _{max} (bar)	Ports	Ref.	€
 	AM3-PC-P	P port (Δp=10bar)	320	ISO 03	AM-391	187,00
	AM5-PC-P			ISO 05	-	344,00

3-WAY LOAD SENSING	Code	Control	P _{max} (bar)	Ports	Ref.	€
 	AM3-LS-P3	P port (Δp=5÷40bar)	320	ISO 03	AM-390	244,00
	AM5-LS-P3			ISO 05	-	344,00

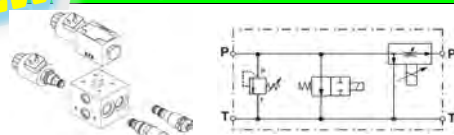
PRESSURE CONTROL PROPORTIONAL VALVES
REDUCTION ON P

AMF-RE-P		Code	Q _{nom} (l/min)	Range	Ports	Rif.	€
		AMF-RE-P/**	20	0 ÷ 32 bar	HDF	AM-F75	212,00

PRESSURE RELIEF

Model	Q _{nom} (l/min)	Range	Ports	Rif.	€	
 	PMO-78.*	50	7 ÷ 350 bar	7/8" 14 UNF	PMO-78	276,00

PROPORTIONAL FLOW REGULATING GROUP
For compact groups AMF/HDF

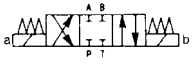
For compact groups AMF/HDF		Code	Q _{nom} (l/min)	P _{max} (bar)	Ports	Rif.	€
		AMF-EVO-PS-PC-	20	250	HDF	AD-290	612,00

AMF-EVO-PS-PC-24 group includes: MO-4/** press relief valve, EV20.78.04-024C e.v. 7/8" venting valve, PC-M22/78 3-way compensator, HD3-PS-1PML-R4 proportional electrovalve

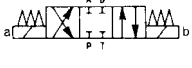
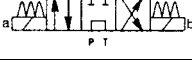
ELECTRONIC DRIVERS for HD*-PS proportional valves

DIN RAIL (OPEN)	Code	V _{supply}		Ref.	€
	UED-S	9-36 V _{CC}	1 channel (monosolenoid)	UED	491,00
	UED-D	9-36 V _{CC}	2 channels (bisolenoid)	UED	598,00
DIN 43650-A	Code	V _{supply}		Ref.	€
	UED-KA	9-36 V _{CC}	1 channel	UED-KA	332,00

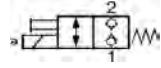
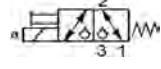

EXPLOSION PROOF SOLENOID OPERATED VALVES - DIRECTIONAL CONTROL
ATEX 94/9/CE

ISO 03 NG06 Class: II 2GD Eex dII C T5 (*)	Code	Q _{nom} (l/min)	P _{max} (bar)	Size	Ref.	€
	 HD3-EX-1LL	32	250	ISO 03	HD-3EX	680,00
	 HD3-EX-1C	32	250	ISO 03	HD-3EX	1134,00
	 HD3-EX-3C	32	250	ISO 03	HD-3EX	1134,00
	 HD3-EX-4C	32	250	ISO 03	HD-3EX	1160,00


**HYDRAULIC PILOTED VALVES - DIRECTIONAL CONTROL
WITH EXPLOSION PROOF SOLENOID OPERATED PILOT VALVE**
ATEX 94/9/CE

ISO 05 NG10 Class: II 2GD Eex dII C T5 (*)	Code	Q _{nom} (l/min)	P _{max} (bar)	Size	Ref.	€
	 HD5-EX-1LL	150	250	ISO 05	HD-5EX	1200,00
	 HD5-EX-1C	150	250	ISO 05	HD-5EX	1655,00
	 HD5-EX-3C	150	250	ISO 05	HD-5EX	1655,00
	 HD5-EX-4C	150	250	ISO 05	HD-5EX	1725,00


EXPLOSION PROOF SOLENOID OPERATED VALVES (SCREW-IN TYPE)
ATEX 94/9/CE

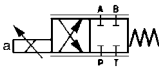
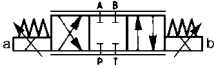
Class: II 2GD Eex dII C T5 (*)	Code	Q _{nom} (l/min)	P _{max} (bar)	Cavity	Ref.	€
	 EVX-06-C5	25	250	M22	EV-EX/C5	712,00
	 EVX-06-D5	25	250	M22	EV-EX/D5	776,00

All prices mentioned above are for solenoid valves complete with DC coils (12V or 24V).

Atex solenoids come as standard with manual override, by pushing of the emergency pin

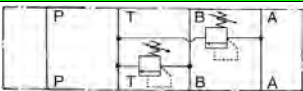
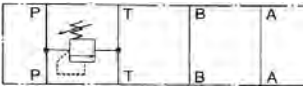
Coils for AC current (115V or 230V), including a current rectifier circuit, are available with price difference of +20,00€ (each coil)


PROPORTIONAL EXPLOSION PROOF SOL. OP. VALVES - DIRECTIONAL CONTROL
ATEX 94/9/CE

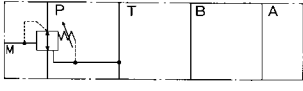
ISO 03 NG06 Class: II 2GD Eex dII C T5 (*)	Code	Q _{nom} (l/min)	P _{max} (bar)	Size	Ref.	€
	 HD3-PX-1PML	32	250	ISO 03	HD-PEX	712,00
	 HD3-PX-1PC	32	250	ISO 03	HD-PEX	1390,00
	 HD3-PX-3PC	32	250	ISO 03	HD-PEX	1390,00

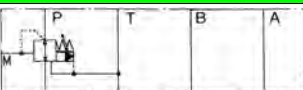
Electronic drivers: type UED-* (see page 6 of this pricelist or catalogue reference UED-15)

RELIEF VALVES (STACKABLE TYPE)

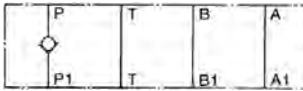
DIRECT ACTING		Code	Function	Q _{nom} (l/min)	P _{max} (bar)	Size	Ref.	€
		AM2-MO-BA/20	max=>A-B to T	20	80 to 210	ISO 02	AM-260	157,00
		AM3-MO-BA/20	max=>A-B to T	32	40 to 250	ISO 03	AM-360	155,00
		AM5-MP-BA/20	max=>A-B to T	100	20 to 210	ISO 05	AM-565	344,00
		AM2-MO-P/20	max=>P to T	20	80 to 210	ISO 02	AM-260	108,00
		AM3-MO-P/20	max=>P to T	32	40 to 250	ISO 03	AM-360	107,00
		AM5-MP-P/20	max=>P to T	100	20 to 210	ISO 05	AM-565	218,00

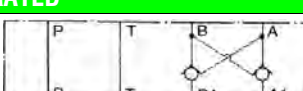
PRESSURE REDUCING VALVES (STACKABLE TYPE)

DIRECT ACTING		Code	Function	Q _{nom} (l/min)	P _{max} (bar)	Size	Ref.	€
		AM2-RO-P/16	reduct. => P	20	10 to 200	ISO 02	AM-270	164,00
		AM3-RO-P/25	reduct. => P	40	60 to 250	ISO 03	AM-370	181,00

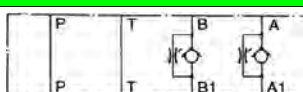
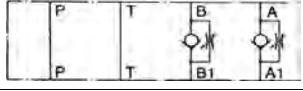
PILOT OPERATED		Code	Function	Q _{nom} (l/min)	P _{max} (bar)	Size	Ref.	€
		AM3-RP-P/20	reduct. => P	40	10 to 210	ISO 03	AM-380	191,00
		AM3-RO-BC/20	reduct. => B	40	10 to 210	ISO 03	AM-380	203,00

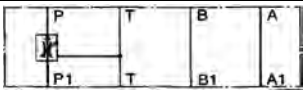
CHECK VALVES (STACKABLE TYPE)

DIRECT ACTING		Code	Function	Q _{max} (l/min)	P _{max} (bar)	Size	Ref.	€
		AM3-CO-P/34	check on P	40	320	ISO 03	AM-330	69,00

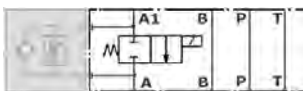
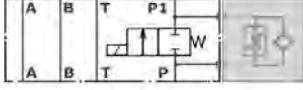
PILOT OPERATED		Code	Function	Q _{max} (l/min)	P _{max} (bar)	Size	Ref.	€
		AM2-CP-AB	check on A, B	24	320	ISO 02	AM-250	109,00
		AM3-CP-AB	check on A, B	50	320	ISO 03	AM-350	108,00
		AM5-CP-AB	check on A, B	100	320	ISO 05	AM-550	196,00

FLOW CONTROL VALVES (STACKABLE TYPE)

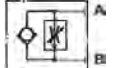
1-DIR FLOW		Code	Function	Q _{max} (l/min)	P _{max} (bar)	Size	Ref.	€
		AM2-FC-AB	meter-out A,B	24	320	ISO 02	AM-220	108,00
		AM3-FC-AB	meter-out A,B	50	320	ISO 03	AM-320	107,00
		AM5-FC-AB	meter-out A,B	100	320	ISO 05	AM-520	185,00
		AM3-FX-AB	meter-in A,B	50	320	ISO 03	AM-325	107,00

3-WAY PRESSURE COMPENSATED		Code	Function	Q _{max} (l/min)	P _{max} (bar)	Size	Ref.	€
		AM3-Q3-P/16	control on P	16	320	ISO 03	AM-395	244,00

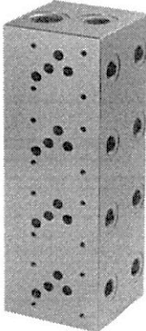
BY-PASS SOLENOID VALVES (STACKABLE TYPE) for flow control valves QVC-06

DIRECT ACTING		Code	Function	Q _{nom} (l/min)	P _{max} (bar)	Size	Ref.	€
		AM3-DQ-AC-**	Normally closed Meter-out A	32	250	ISO 03	AM-310	240,00
		AM3-DQ-PC-**	Normally closed Meter-in P	32	250	ISO 03	AM-310	240,00

(**) specify coil tension 12/24V DC or 115/230V RAC (plug and flow regulator not included)

2-WAY PRESSURE COMPENSATED		Code	Q _{max} regulated	Q _{max} free	P _{max} (bar)	Size	Ref.	€
		QVC-06/16	16 l/min	32 l/min	320	ISO 03	QV-325	292,00
		QVC-06/32	32 l/min	32 l/min	320	ISO 03	QV-325	292,00

MANIFOLDS

ISO 03 NG06	Code	Material	Stations	P _{max} (bar)	Ports	Ref.	€
	MR3-1G/ALU	Aluminium	1	250	Side 3/8" BSP	PM-301	52,90
	MR3-2G/ALU	Aluminium	2	250	Side 3/8" BSP	PM-301	71,00
	MR3-3G/ALU	Aluminium	3	250	Side 3/8" BSP	PM-301	89,20
	MR3-4G/ALU	Aluminium	4	250	Side 3/8" BSP	PM-301	110,30
	MR3-5G/ALU	Aluminium	5	250	Side 3/8" BSP	PM-301	132,20
	MR3-6G/ALU	Aluminium	6	250	Side 3/8" BSP	PM-301	156,20
	MR3-7G/ALU	Aluminium	7	250	Side 3/8" BSP	PM-301	180,20
	MR3-8G/ALU	Aluminium	8	250	Side 3/8" BSP	PM-301	204,50
	MR3-1G	Cast Iron	1	320	Side 3/8" BSP	PM-301	43,00
	MR3-2G	Cast Iron	2	320	Side 3/8" BSP	PM-301	59,00
	MR3-3G	Cast Iron	3	320	Side 3/8" BSP	PM-301	76,00
	MR3-4G	Cast Iron	4	320	Side 3/8" BSP	PM-301	95,00
	MR3-5G	Cast Iron	5	320	Side 3/8" BSP	PM-301	114,20
	MR3-6G	Cast Iron	6	320	Side 3/8" BSP	PM-301	138,00
	MR3-7G	Cast Iron	7	320	Side 3/8" BSP	PM-301	165,00
	MR3-8G	Cast Iron	8	320	Side 3/8" BSP	PM-301	195,00
	MRK3-1G	Cast Iron	1	320	Rear 3/8" BSP	PM-311	55,00
	MRK3-2G	Cast Iron	2	320	Rear 3/8" BSP	PM-311	77,00
	MRK3-3G	Cast Iron	3	320	Rear 3/8" BSP	PM-311	103,00
	MRK3-4G	Cast Iron	4	320	Rear 3/8" BSP	PM-311	130,00
	MRK3-5G	Cast Iron	5	320	Rear 3/8" BSP	PM-311	155,00
	MRK3-6G	Cast Iron	6	320	Rear 3/8" BSP	PM-311	184,00
	MRK3-7G	Cast Iron	7	320	Rear 3/8" BSP	PM-311	217,00
	MRK3-8G	Cast Iron	8	320	Rear 3/8" BSP	PM-311	247,00
	MRSK-3/20	Cast Iron	1	320	Rear 3/8" BSP	PM-352	33,00
	BM3-G/20	Aluminium + Relief valve	1	110-220	A-B side 3/8" BSP P-T rear 3/8" BSP	-	115,00
ISO 03 Stackables	Code	Material	Position	P _{max} (bar)	Ports	Ref.	€
	AC-4T-AP	Cast Iron	Intermediate	320	Rear 3/8" BSP	PC-396	51,00
	AC-4T-AT	Cast Iron	End	320	Rear 3/8" BSP	PC-396	51,00
	AS-3458	Cast Iron	Starting	320	Bottom-Side P,T 1/2" BSP	-	90,00
ISO 05 NG10	Code	Material	Stations	P _{max} (bar)	Ports	Ref.	€
	MR5-1G	Cast Iron	1	320	Side 1/2" BSP	PM-501	75,00
	MR5-2G	Cast Iron	2	320	Side 1/2" BSP	PM-501	103,00
	MR5-3G	Cast Iron	3	320	Side 1/2" BSP	PM-501	140,00
	MR5-4G	Cast Iron	4	320	Side 1/2" BSP	PM-501	180,00
	MR5-5G	Cast Iron	5	320	Side 1/2" BSP	PM-501	225,00
	MR5-6G	Cast Iron	6	320	Side 1/2" BSP	PM-501	264,00
	MR5-7G	Cast Iron	7	320	Side 1/2" BSP	PM-501	323,00
	MR5-8G	Cast Iron	8	320	Side 1/2" BSP	PM-501	376,00
	MRK5-1G	Cast Iron	1	320	Rear 1/2" BSP	PM-511	99,00
	MRK5-2G	Cast Iron	2	320	Rear 1/2" BSP	PM-511	134,00
	MRK5-3G	Cast Iron	3	320	Rear 1/2" BSP	PM-511	178,00
	MRK5-4G	Cast Iron	4	320	Rear 1/2" BSP	PM-511	222,00
	MRK5-5G	Cast Iron	5	320	Rear 1/2" BSP	PM-511	269,00
	MRK5-6G	Cast Iron	6	320	Rear 1/2" BSP	PM-511	315,00
	MRK5-7G	Cast Iron	7	320	Rear 1/2" BSP	PM-511	376,00
	MRK5-8G	Cast Iron	8	320	Rear 1/2" BSP	PM-511	447,00
	MRSK-5-1/2"G	Cast Iron	1	320	Rear 1/2" BSP	PM-551	64,00
	BM5-G/20	Aluminium + Relief valve	1	110-220	A-B side 1/2" BSP P-T rear 1/2" BSP	-	135,00

PRESSURE GAUGES

Glycerine immersed	Code	Diameter (mm)	Scale (bar)	Port	€
	M63/100	63	0-100	Radial 1/4" BSP	25,00
	M63/160	63	0-160	Radial 1/4" BSP	25,00
	M63/250	63	0-250	Radial 1/4" BSP	25,00
	M63/400	63	0-400	Radial 1/4" BSP	25,00

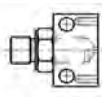
SHUT-OFF VALVES

NEEDLE TYPE	Code	Material	Function	P _{max} (bar)	Ports	Ref.	€
	FT 290	Steel	shutter	400	1/4" BSP	AD-550	19,00
	FT 291	Steel	shutter	400	1/4" BSP	AD-550	19,00

PRESSURE SWITCHES

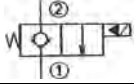
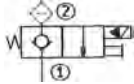
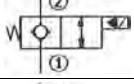
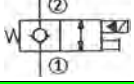
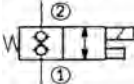
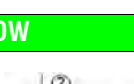
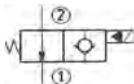
PISTON OPERATED	Code	Pressure range (bar)	Ref.	€
	APR-035	6 - 35	AZ-400	112,00
	APR-150	12 - 150	AZ-400	112,00
	APR-250	15 - 250	AZ-400	112,00
	APR-630	50 - 630	AZ-400	112,00

Available on request the version with graduated hand knob, consider +13% on above prices

ADAPTORS	Code	Connecting size	Ref.	€
	ACM-03PP	ISO03 (cetop3) plate with side P-P 1/4" BSP	AZ-400	42,00
	ACM-03AB	ISO03 (cetop3) plate with side A-B 1/4" BSP	AZ-400	42,00
	ACF-06M	1/4" BSP male, to fit into ACM-03 plates	AZ-400	29,00

SCREW-IN 2-WAY SOLENOID OPERATED VALVES (POPPET TYPE)

(prices are without coil)

N.C. 1-DIR. FLOW	Code	Q _{nom} (l/min)	P _{max} (bar)	Cavity	Ref.	€
	 EVC.34.03	32	250	3/4" - 16 UNF	AC-100	42,00
	 EVSC.34.02	32	250	3/4" - 16 UNF	AC-100	49,50
N.C. 2-DIR FLOW	Code	Q _{nom} (l/min)	P _{max} (bar)	Cavity	Ref.	€
	 EVC2.34.03	32	250	3/4" - 16 UNF	AC-120	43,50
	 EVC2.34.04	32	250	3/4" - 16 UNF	AC-120	50,70
N.C. 2- DIR FLOW	Code	Q _{nom} (l/min)	P _{max} (bar)	Cavity	Ref.	€
	 EVD.34.04	10	250	3/4" - 16 UNF	AC-140	47,00
	 EVD2.34.04	16	210	3/4" - 16 UNF	AC-142	47,00
N.O. 1- DIR FLOW	Code	Q _{nom} (l/min)	P _{max} (bar)	Cavity	Ref.	€
	 EVO.34.03	20	250	3/4" - 16 UNF	AC-150	51,50

COILS	Code	Voltage - Absorbition	€	Code	Voltage - Absorbition	€
	C30-012C	12V DC - 18W	9,30	C36-012C	12V DC - 22W	13,00
	C30-024C	24V DC - 18W	9,30	C36-024C	24V DC - 22W	13,00
	C30-220R	230V RAC ^(*) - 18W	10,60	C36-220R	230V RAC ^(*) - 22W	14,20

C30 suitable for EVC, EVSC, EVC2, EVO valve types
Electrovalve price = valve body's price + coil's price

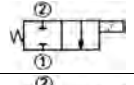
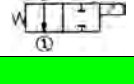
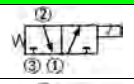
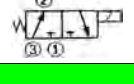
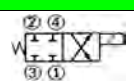
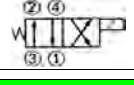
C36 suitable for EVD, EVD2 valve types

(*) Needed plug with current rectifier

SCREW-IN SOLENOID OPERATED VALVES (SPOOL TYPE)

(prices are without coil)

NEW

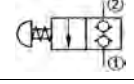
2-WAY	Code	Q _{max} (l/min)	P _{max} (bar)	Cavity	Ref.	€
	 EVL2C.34.03	20	250	3/4" - 16 UNF	AC-105	45,00
	 EVL20.34.03	20	250	3/4" - 16 UNF	AC-105	45,00
3-WAY	Code	Q _{max} (l/min)	P _{max} (bar)	Cavity	Ref.	€
	 EVL3C.34.03	20	250	3/4" - 16 UNF	AC-160	51,00
	 EVL30.34.03	20	250	3/4" - 16 UNF	AC-160	51,00
4-WAY	Code	Q _{max} (l/min)	P _{max} (bar)	Cavity	Ref.	€
	 EVL4CX.34.03	20	250	3/4" - 16 UNF	AC-170	62,00
	 EV4LPX.34.03	20	250	3/4" - 16 UNF	AC-170	62,00

COILS	Code	Voltage - Absorbition	€	Code	Voltage - Absorbition	€
	B01-012C	12V DC - 22W	16,00	C36-220R	230V RAC ^(*) -18W	19,00
	B01-024C	24V DC - 22W	16,00			

Electrovalve price = valve body's price + coil's price

(*) Needed plug with current rectifier

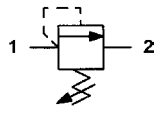
SCREW-IN 2-WAY MANUAL OPERATED VALVES (POPPET TYPE)

N.C. 1-DIR. FLOW	Code	Q _{max} (l/min)	P _{max} (bar)	Cavity	Ref.	€
	 VEM-34-NC/25	20	350	3/4" - 16 UNF	AC-200	53,00

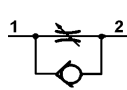
SCREW-IN CHECK VALVES (POPPET TYPE)

1-DIR FLOW	Code	Q _{max} (l/min)	P _{max} (bar)	Cavity	Ref.	€
 	VUC-34	32	320	3/4" - 16 UNF	AC-300	17,00

SCREW-IN RELIEF VALVES

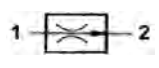
DIRECT OPERATED	Code	Q _{max} (l/min)	Press. range (bar)	Cavity	Ref.	€
 	MO-010	16	25 to 250	3/4" - 16 UNF	AC-410	23,00
	MO-020/20	25	63 to 200	3/4" - 16 UNF	AC-420	34,20
	MO-3/20	32	40 to 250	M20 x 1,5	AC-430	27,50
	MO-3/32	32	100 to 320	M20 x 1,5	AC-430	27,50
	MO-4/10	50	20 to 130	7/8" - 14 UNF	AC-440	34,50
	MO-4/16	50	40 to 180	7/8" - 14 UNF	AC-440	34,50
	MO-4/32	50	60 to 350	7/8" - 14 UNF	AC-440	34,50

1-WAY FLOW CONTROL VALVES (SCREW-IN TYPE)

THROTTLE ADJUSTABLE	Code	Q _{max} (l/min)	P _{max} (bar)	Cavity	Ref.	€
 	FT 266/5-34	20	250	3/4" - 16 UNF	AC-510	58,00

2-WAY FLOW CONTROL VALVES (SCREW-IN TYPE)

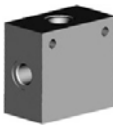
THROTTLE ADJUSTABLE	Code	Q _{max} (l/min)	P _{max} (bar)	Cavity	Ref.	€
 	VCF-34	16	250	3/4" - 16 UNF	AC-510	20,50
	FT 266/2-34	20	250	3/4" - 16 UNF	AC-510	42,00

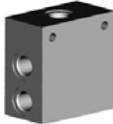
FIXED - PRESS. COMPENS.	Code	Q (l/min)	P _{max} (bar)	Cavity	Ref.	€
 	VQF-34/**	(**) 1 to 12	250	3/4" - 16 UNF	AC-530	23,50

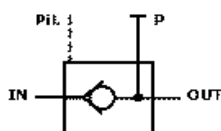
PRESS. COMP. - ADJUST.	Code	Q _{max} (l/min)	P _{max} (bar)	Cavity	Ref.	€
 	FT 268/2-34	20	250	3/4" - 16 UNF	AC-550	112,50

LINE ASSEMBLY BODIES

2-WAY VALVES	Code	Cavity	Ports	Material	Ref.	€
	LAB-34-2/14	3/4" - 16 UNF	1/4" BSP	Aluminium	AC-900	28,50
	LAB-34-2/38	3/4" - 16 UNF	3/8" BSP	Aluminium	AC-900	28,50
	LAB-78-2/12	7/8" - 14 UNF	1/2" BSP	Aluminium	AC-900	43,00

3-WAY VALVES	Code	Cavity	Ports	Material	Ref.	€
	LAB-34-3/38	3/4" - 16 UNF	3/8" BSP	Aluminium	AC-900	34,50

4-WAY VALVES	Code	Cavity	Ports	Material	Ref.	€
	LAB-34-4/38	3/4" - 16 UNF	3/8" BSP	Aluminium	AC-900	43,00

FILLING VALVES - Ref. AC-350
NEW


Code	Size	Qmax / Pmax	€
ARF-32	DN32 1-1/4" (F32/16)	160 l/min - 400 bar	418,00
ARF-40	DN40 1-1/2" (F40/20)	250 l/min - 400 bar	506,00
ARF-50	DN50 2" (F50/25)	400 l/min - 400 bar	608,00
ARF-63	DN63 2-1/2" (F63/30)	600 l/min - 400 bar	790,00
ARF-80	DN80 3" (F80/36)	1000 l/min - 400 bar	897,00
ARF-100	DN100 4" (F100/45)	1600 l/min - 400 bar	1125,00
ARF-125	DN125 5" (F125/60)	2500 l/min - 400 bar	1695,00
ARF-160	DN160 6" (F160/76)	4000 l/min - 400 bar	4530,00
ARF-200	DN200 8" (F200/100)	7000 l/min - 350 bar	8640,00

HYDRAULIC CYLINDERS
NEW
ISO 6020/2 TIE ROD CYLINDERS

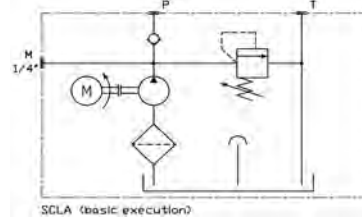
ISO 6020/2 FLANGED CYLINDERS

COMPACT CYLINDERS


Check on website www.arolautomazione.it for catalogue of the most common types of hydraulic cylinders, upon inquiry offer is very quick and with drawing.

MINI POWER PACKS type **SCLA** - DC MOTOR (ref. AS-101)

NEW



MINI POWER PACK SCLA (basic execution)

Code sampling	Reservoir	Gear pumps available	DC motors available	€
SCLA-02-S-11-1216	2,5 litres (02)	11 = 1,1 cm ³ /rev. 16 = 1,6 cm ³ /rev.	1216 = 12V DC 1,6kW with starter	520,00
SCLA-05-S-27-2422	5 litres (05)	27 = 2,7 cm ³ /rev. 42 = 4,2 cm ³ /rev.	2422 = 24V DC 2,2kW with starter	540,00
SCLA-08-S-58-2422	8 litres (08)	58 = 5,8 cm ³ /rev.		560,00

Assembly and test included in the price. Possible all combinations among pumps and motors available, without price difference.

Mini power packs type **SCLA** come ready to be combined with **HDF*/AMF** valves (see next page).

ACCESSORIES

	Code	Description	€
	AMF-HP2	Hand pump 2 cm ³ /stroke (ref. AA-400)	97,00
	PSC	Mounting foot + screws	19,00
	PD1-PT	Starting plate with P and T ports, thread 1/4" BSP	32,00

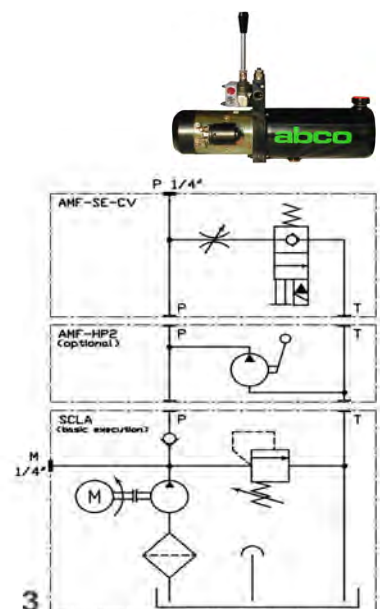
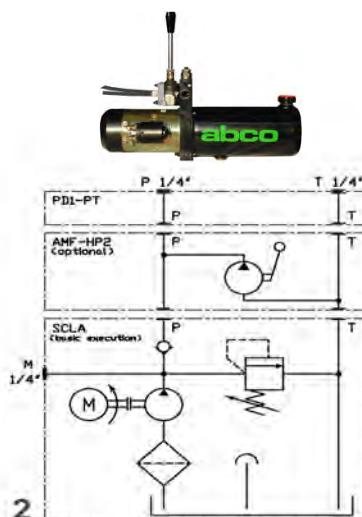
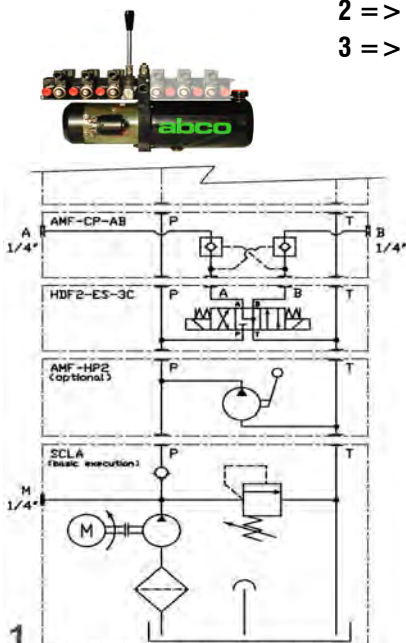
AMF-SE MODULES for SIMPLE ACTING OF CYLINDERS

BLOCK + VALVES	Code	Flow regulator type	€
	AMF-SE-CV-**	Throttle adjustable	128,00
	AMF-SE-Q1-**	Fixed flow 1 l/min, pressure compensated	124,00
	AMF-SE-Q2-**	Fixed flow 2 l/min, pressure compensated	124,00
	AMF-SE-Q4-**	Fixed flow 4 l/min, pressure compensated	124,00
	AMF-SE-QV-**	Throttle adjustable, pressure compensated	223,00

** specify solenoid valve tension: **12** = 12V DC, **24** = 24V DC

STANDARD ASSEMBLIES

- 1 => Direct assembly of HDF/HDF2 electrovalves and AMF modules. Assembly cost must be considered as 10% of net price of each single component added to SCLA basic execution
- 2 => Starting P-T lines (1/4"BSP) for generic hydraulic power supply (remote by hoses)
- 3 => Starting AMF-SE plates for simple acting cylinders

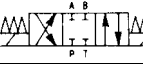


SOLENOID OPERATED STACKABLE VALVES - DIRECTIONAL CONTROL

(prices are without coils)

Body HDF	Code	Q _{nom} (l/min)	P _{max} (bar)	Ports	Ref.	€
	 HDF-ES-1LL	20	250	A,B: 1/4" BSP P,T: 3/8" BSP	AD-220	97,00
	 HDF-ES-0ML	20	250	A,B: 1/4" BSP P,T: 3/8" BSP	AD-220	97,00
	 HDF-ES-0C	20	250	A,B: 1/4" BSP P,T: 3/8" BSP	AD-220	105,00
	 HDF-ES-1C	20	250	A,B: 1/4" BSP P,T: 3/8" BSP	AD-220	105,00
	 HDF-ES-3C	20	250	A,B: 1/4" BSP P,T: 3/8" BSP	AD-220	105,00
	 HDF-ES-4C	20	250	A,B: 1/4" BSP P,T: 3/8" BSP	AD-220	122,00

For mutual use, with standard stackable feature up to 8 valve bodies (A,B ports on top)

Body HDF2	Code	Q _{nom} (l/min)	P _{max} (bar)	Ports	Ref.	€
	 HDF2-ES-1LL	20	250	A,B: side for AMF P,T: 3/8" BSP	AD-230	104,00
	 HDF2-ES-0ML	20	250	A,B: side for AMF P,T: 3/8" BSP	AD-230	104,00
	 HDF2-ES-0C	20	250	A,B: side for AMF P,T: 3/8" BSP	AD-230	112,00
	 HDF2-ES-1C	20	250	A,B: side for AMF P,T: 3/8" BSP	AD-230	112,00
	 HDF2-ES-3C	20	250	A,B: side for AMF P,T: 3/8" BSP	AD-230	112,00
	 HDF2-ES-4C	20	250	A,B: side for AMF P,T: 3/8" BSP	AD-230	129,00

To be combined with function modules **AMF** (A,B ports on side, top plugged)

Electrovalve price = body price + coil(s)' price (see below)

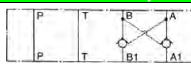
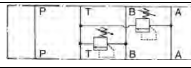
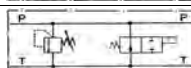
COILS for HDF-ES/HDF2-ES solenoid operated directional valves

Code	Voltage	€	Code	Voltage	€
	B01-012C 12V DC	16,00	B01-220R	230V RAC ^(*)	19,00
	B01-024C 24V DC	16,00			

Electrical connection through standard ISO 4400 plugs (see page 5)

(*) Needed plug with current rectifier

STACKABLE FUNCTIONS for HDF*-ES valves

AMF modules (for HDF/HDF2)	Code	Description	Ref.	€
	 AMF-CP-AB	Check valve on A and B, pilot operated	AD-250	76,00
	 AMF-MO-BA	Relief valve on B and A, direct acting	AD-265	116,00
	 AMF-MOP-CC	Relief valve on P, direct acting	AD-260	65,00
	 AMF-RO-P/6,3	Direct operated pressure reducing valve	AD-280	146,00
	 AMF-MOP-EV20-*	Relief valve on P + electric by-pass (*) specify coil tension 12V or 24V DC	AD-270	132,00
IN-LINE type (for HDF)	Code	Description	Ref.	€
	 HFC-14	One-way flow control valve 1/4" BSP with rotating joint for easy assembly	AF-220	46,00

Plates for HDF*-ES valves

Code	Description	Ref.	€
	AMF-PM-TP Parallel/Series converter T ₁ to P ₂	-	33,00
	PD1-03/32-5 Inlet starting plate (steel)	AD-220	48,00
	PD1-03/32-0 End closing plate (steel)	AD-220	36,00
	MAF-KIT-2 Mounting angle kit (2 brackets + 2 bolts + 2 washers)	AD-220	31,00

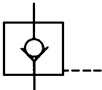
DISTRIBUTION

A selection of first class products, from our stores for quick delivery,
available to be shared with our dealers at privileged conditions.

On request, different items of mentioned producers can be available in a short time.

CHECK VALVES (IN-LINE TYPE)

DIRECT ACTING - POPPET	Code	Material	Q _{max} (l/min)	P _{max} (bar)	Ports	Ref.	€
 	FT 257/6-14	Steel	16	320	1/4" BSP	AD-550	14,60
	FT 257/6-38	Steel	30	320	3/8" BSP	AD-550	16,50
	FT 257/6-12	Steel	60	320	1/2" BSP	AD-550	17,70
	FT 257/6-34	Steel	100	320	3/4" BSP	AD-550	24,80
	FT 257/6-1	Steel	160	320	1" BSP	AD-550	38,50
	FT 257/6-114	Steel	250	320	1-1/4" BSP	AD-550	63,50

PILOT OPERATED - POPPET	Code	Material	Q _{max} (l/min)	P _{max} (bar)	Ports	Ref.	€
 	FT 257/7-14	Steel	16	320	1/4" BSP	AD-550	32,00
	FT 257/7-38	Steel	30	320	3/8" BSP	AD-550	37,20
	FT 257/7-12	Steel	60	320	1/2" BSP	AD-550	46,20

FLOW CONTROL VALVES (IN-LINE TYPE)

2-WAY FLOW - NEEDLE	Code	Material	Q _{max} (l/min)	P _{max} (bar)	Ports	Ref.	€
 	FT 251/2-S-14	Steel	16	400	1/4" BSP	AF-100	16,70
	FT 251/2-S-38	Steel	30	400	3/8" BSP	AF-100	22,60
	FT 251/2-S-12	Steel	60	400	1/2" BSP	AF-100	29,60
	FT 251/2-S-34	Steel	100	400	3/4" BSP	AF-100	50,50
 	FT 1251/2-01-14	Brass	16	210	1/4" BSP	AF-100	19,00
	FT 1251/2-01-38	Brass	30	210	3/8" BSP	AF-100	24,20
	FT 1251/2-01-12	Brass	60	210	1/2" BSP	AF-100	35,60
	FT 1251/2-01-34	Brass	100	210	3/4" BSP	AF-100	66,20

1-WAY FLOW - NEEDLE	Code	Material	Q _{max} (l/min)	P _{max} (bar)	Ports	Ref.	€
 	FT 251/5-S-14	Steel	16	400	1/4" BSP	AF-100	20,20
	FT 251/5-S-38	Steel	30	400	3/8" BSP	AF-100	23,70
	FT 251/5-S-12	Steel	60	400	1/2" BSP	AF-100	33,00
	FT 251/5-S-34	Steel	100	400	3/4" BSP	AF-100	59,70
 	FT 1251/5-01-14	Brass	16	210	1/4" BSP	AF-100	26,80
	FT 1251/5-01-38	Brass	30	210	3/8" BSP	AF-100	31,40
	FT 1251/5-01-12	Brass	60	210	1/2" BSP	AF-100	43,10
	FT 1251/5-01-34	Brass	100	210	3/4" BSP	AF-100	72,70

SHUT-OFF VALVES

BALL TYPE 2-WAY	Code	Material	Q _{max} (l/min)	P _{max} (bar)	Ports	Ref.	€
 	FT 221/1-14	Steel	16	500	1/4" BSP	AD-550	19,10
	FT 221/1-38	Steel	30	500	3/8" BSP	AD-550	20,50
	FT 221/1-12	Steel	60	500	1/2" BSP	AD-550	21,30
	FT 221/1-34	Steel	100	320	3/4" BSP	AD-550	41,40
	FT 221/1-1	Steel	160	320	1" BSP	AD-550	50,00
	FT 221/1-114	Steel	250	320	1-1/4" BSP	AD-550	73,50

BALL TYPE 3-WAY	Code	Material	Q _{max} (l/min)	P _{max} (bar)	Ports	Ref.	€
 	FT 221/3-14	Steel	16	500	1/4" BSP	AD-550	38,90
	FT 221/3-38	Steel	30	500	3/8" BSP	AD-550	40,30
	FT 221/3-12	Steel	60	500	1/2" BSP	AD-550	43,60

GEAR PUMPS (Clockwise rotation) - Ref. ACRON
NEW


GROUP 1	Code	Displacement (cm ³ /rev)	P _{max} (bar)	Power (kW) (1500rpm and P _{max})	rpm _{max}	€
	AB1-2R	1,7	250	1,1	4500	97,00
	AB1-3R	2,2	250	1,4	3500	97,00
	AB1-4R	3,2	250	2,1	3200	97,00
	AB1-5R	3,8	250	2,5	2800	97,00
	AB1-6R	4,3	250	2,8	2700	97,00
	AB1-9R	6,0	190	3	2000	97,00

GROUP 2	Code	Displacement (cm ³ /rev)	P _{max} (bar)	Power (kW) (1500rpm and P _{max})	rpm _{max}	€
	AB2-10R	6,3	250	4,1	4000	123,00
	AB2-12R	8,2	250	5,4	3500	123,00
	AB2-16R	11,3	250	7,4	3500	123,00
	AB2-20R	14	250	8	3000	123,00
	AB2-24R	16	235	9,5	3000	123,00
	AB2-30R	19	200	10	3000	123,00
	AB2-40R	27,9	140	11,2	2000	123,00

GROUP 3	Code	Displacement (cm ³ /rev)	P _{max} (bar)	Power (kW) (1500rpm and P _{max})	rpm _{max}	€
	AB3-33R	22,5	210	13	2800	231,00
	AB3-40R	28	210	16	2800	231,00
	AB3-50R	32,7	210	18	2800	231,00
	AB3-60R	38	210	21	2600	231,00
	AB3-75R	50	180	24	2400	231,00

GEAR PUMPS (Counterclockwise rotation)
NEW


GROUP 1K	Code	Displacement (cm ³ /rev)	P _{max} (bar)	Power (kW) (1500rpm and P _{max})	rpm _{max}	€
	MPP1,1SN	1,1	250	1,1	4500	79,00
	MPP1,6SN	1,6	250	1,4	4000	79,00
	MPP2,7SN	2,7	250	2,1	3500	79,00
	MPP4,2SN	4,2	250	2,5	2700	79,00
	MPP5,8SN	5,8	190	2,8	2000	79,00

GEAR PUMPS (Clockwise rotation) - Ref. AA-100
(MARZOCCHI)

GROUP 1	Code	Displacement (cm ³ /rev)	P _{max} (bar)	Power (kW) (1500rpm and P _{max})	rpm _{max}	€
	ALP1D2	1,4	220	0,8	6000	125,65
	ALP1D3	2,1	220	1,2	6000	125,65
	ALP1D4	2,8	220	1,7	5000	125,65
	ALP1D5	3,5	220	2,1	5000	125,65
	ALP1D6	4,1	210	2,4	4000	125,65
	ALP1D9	6,2	200	3,3	3800	125,65

GROUP 2	Code	Displacement (cm ³ /rev)	P _{max} (bar)	Power (kW) (1500rpm and P _{max})	rpm _{max}	€
	ALP2D10	7,0	230	4,1	4000	157,61
	ALP2D13	9,6	220	5,6	3000	157,61
	ALP2D16	11,5	220	6,8	4000	157,61
	ALP2D20	14,1	210	8	4000	163,39
	ALP2D25	17,9	200	9,5	3600	163,39
	ALP2D30	21,1	180	10	3200	175,09
	ALP2D40	28,2	150	11,2	2500	175,09

GROUP 3	Code	Displacement (cm ³ /rev)	P _{max} (bar)	Power (kW) (1500rpm and P _{max})	rpm _{max}	€
	ALP3D33	22	230	14	3500	278,15
	ALP3D40	26	230	17	3000	278,15
	ALP3D50	33	220	20	3000	278,15
	ALP3D60	39	220	24	3000	290,08

DOUBLE GEAR PUMPS (Clockwise rotation)
(MARZOCCHI)

GROUP 1+1	Code	Displacement shaft side (cm ³ /rev)	Displacement rear side (cm ³ /rev)	€
	ALPA1D2+ALPP1D2	1,4	1,4	352,00
	ALPA1D4+ALPP1D2	2,8	1,4	352,00
	ALPA1D4+ALPP1D4	2,8	2,8	352,00
	ALPA1D6+ALPP1D2	4,1	1,4	352,00
	ALPA1D6+ALPP1D4	4,1	2,8	352,00
	ALPA1D6+ALPP1D6	4,1	4,1	352,00
	ALPA1D9+ALPP1D2	6,2	1,4	352,00
	ALPA1D9+ALPP1D4	6,2	2,8	352,00
	ALPA1D9+ALPP1D6	6,2	4,1	352,00
	ALPA1D9+ALPP1D9	6,2	6,2	352,00

Price includes KIT 1+1 and assembly (performance and dimensions: see equivalent single pumps ALP)

GROUP 2+1	Code	Displacement shaft side (cm ³ /rev)	Displacement rear side (cm ³ /rev)	€
	ALPA2D10+ALPP1D2	7,0	1,4	389,00
	ALPA2D10+ALPP1D4	7,0	2,8	389,00
	ALPA2D10+ALPP1D6	7,0	4,1	389,00
	ALPA2D10+ALPP1D9	7,0	6,2	389,00
	ALPA2D13+ALPP1D2	9,6	1,4	389,00
	ALPA2D13+ALPP1D4	9,6	2,8	389,00
	ALPA2D13+ALPP1D6	9,6	4,1	389,00
	ALPA2D13+ALPP1D9	9,6	6,2	389,00
	ALPA2D16+ALPP1D2	11,5	1,4	389,00
	ALPA2D16+ALPP1D4	11,5	2,8	389,00
	ALPA2D16+ALPP1D6	11,5	4,1	389,00
	ALPA2D16+ALPP1D9	11,5	6,2	389,00
	(follows)			

DOUBLE GEAR PUMPS (Clockwise rotation)
(MARZOCCHI)

GROUP 2+1	Code	Displacement shaft side (cm ³ /rev)	Displacement rear side (cm ³ /rev)	€
	(continued)			
	ALPA2D20+ALPP1D2	14,1	1,4	384,00
	ALPA2D20+ALPP1D4	14,1	2,8	384,00
	ALPA2D20+ALPP1D6	14,1	4,1	384,00
	ALPA2D20+ALPP1D9	14,1	6,2	384,00
	ALPA2D25+ALPP1D2	17,9	1,4	384,00
	ALPA2D25+ALPP1D4	17,9	2,8	384,00
	ALPA2D25+ALPP1D6	17,9	4,1	384,00
	ALPA2D25+ALPP1D9	17,9	6,2	384,00

Price includes KIT 2+1 and assembly (performance and dimensions: see equivalent single pumps ALP)

DOUBLE GEAR PUMPS (Clockwise rotation)
(MARZOCCHI)

GROUP 2+2	Code	Displacement shaft side (cm ³ /rev)	Displacement rear side (cm ³ /rev)	€
	ALPA2D10+ALPP2D10	7,0	7,0	427,00
	ALPA2D13+ALPP2D10	9,6	7,0	427,00
	ALPA2D13+ALPP2D13	9,6	9,6	427,00
	ALPA2D16+ALPP2D10	11,5	7,0	427,00
	ALPA2D16+ALPP2D13	11,5	9,6	427,00
	ALPA2D16+ALPP2D16	11,5	11,5	427,00
	ALPA2D20+ALPP2D10	14,1	7,0	433,00
	ALPA2D20+ALPP2D13	14,1	9,6	433,00
	ALPA2D20+ALPP2D16	14,1	11,5	433,00
	ALPA2D20+ALPP2D20	14,1	14,1	442,00
	ALPA2D25+ALPP2D10	17,9	7,0	433,00
	ALPA2D25+ALPP2D13	17,9	9,6	433,00
	ALPA2D25+ALPP2D16	17,9	11,5	433,00
	ALPA2D25+ALPP2D20	17,9	14,1	442,00

Price includes KIT 2+2 and assembly (performance and dimensions: see equivalent single pumps ALP)

CONNECTION FITTINGS for GEAR PUMPS

STRAIGHT	Code	Pump group	Thread size	€
	F1-038-M	1	3/8" BSP	10,30
	F2-012-M	2	1/2" BSP	11,40
	F3-034-M	3	3/4" BSP	19,00
ELBOW	Code	Pump group	Thread size	€
	RPA1-038	1	3/8" BSP	7,80
	RPA1-012	1	1/2" BSP	7,80
	RPA2-012	2	1/2" BSP	11,00
	RPA2-034	2	3/4" BSP	11,00
	RPA3-034	3	3/4" BSP	16,70
	RPA3-100	3	1" BSP	16,70

Price includes screws and o-ring seal in separate plastic bag

VANE PUMPS - Ref. AA-200
(EATON-VICKERS)

FIXED DISPLACEMENT	Code	Displacement (cm ³ /rev)	P _{max} (bar)	Power (kW) (1500rpm and P _{max})	rpm _{max}	€
	20V8 A1A22R	27	175	13	1800	1305,30
	20V11 A1A22R	36	175	17	1800	1305,30
	25V14 A1A22R	45	175	21	1800	1338,30
	25V17 A1A22R	55	175	26	1800	1338,30
	25V21 A1A22R	67	175	32	1800	1338,30

DOUBLE VANE PUMPS
(EATON-VICKERS)

FIXED DISPLACEMENT	Code	Displacements (cm ³ /rev) Front pump Rear pump	P _{max} (bar)	rpm _{max}	€
	2520V**A**	33 to 67 7 to 45	175	1800	2499,30
	2525V**A**	33 to 67 33 to 67	175	1800	3142,60
	3520V**A**	81 to 121 7 to 45	175	1800	3354,60
	3525V**A**	81 to 121 33 to 67	175	1800	3369,90

CARTRIDGES KIT for VANE PUMPS type V
(EATON-VICKERS)

	Part Number	Description	€
	02-1025**	Cartridge kit for pump 20V - 5/8/11/12/14gpm	833,78
	02-10253*	Cartridge kit for pump 25V - 10/12/14/17/21gpm	854,69
	02-10255*	Cartridge kit for pump 35V - 25/30/35/38gpm	1340,60
	02-10257*	Cartridge kit for pump 45V - 42/50/60gpm	1802,03

AXIAL PISTON PUMPS
(EATON-VICKERS)

VARIABLE DISPLACEMENT	Code	Max displ. (cm ³ /rev)	P _{max} (bar)	Power (kW) (1500rpm and P _{max})	rpm _{max}	€
	PVQ13A2RSE1S20C1412	13	140	5,5	1800	1449,00
	PVQ20B2RSE1S21C2112	20	210	13	1800	1722,90
	PVQ32B2RSE1S21C1412	32	140	13	1800	2088,80

VANE PUMPS - Ref. AA-250/2
(BERARMA)

VARIABLE DISPLACEMENT	Code	Max displ. (cm ³ /rev)	P _{max} (bar)	Power (kW) (1500rpm and P _{max})	rpm _{max}	€
	01 PLP 05 16 FHRM	16	120	5	1800	720,00
	01 PLP 1 20 FHRM	20	100	6	1800	801,00
	01 PLP 1 25 FHRM	25	100	7	1800	846,00
	01 PLP 2 32 FHRM	32	100	10	1800	1222,00

Pressure compensator INCLUDED (std range 20-120bar group 05 and others 30-100bar - Different range on request)

Stroke limiter INCLUDED as standard feature

ELECTRIC MOTORS - 4P / 3-Phase 230/400V 50Hz / 1500rpm
(BROOK-CROMPTON)

IE3 Class - B5 Flanging	Code	Power (kW)	Ø Flange (mm)	€
	T-DA71MB	0,37	160	180,00
	T-DA80MA	0,55	200	190,00
	T-DA80B	0,75	200	250,00
	T-DA90SA	1,1	200	300,00
	T-DA90LA	1,5	200	360,00
	T-DA100LA	2,2	250	460,00
	T-DA100LB	3	250	530,00
	T-DA112MA	4	250	620,00
	T-DA132SA	5,5	300	840,00
	T-DA132MA	7,5	300	940,00
	T-DA132MB	9	300	1140,00
	T-DF160MA	11	350	1320,00
	T-DF160LA	15	350	1470,00
	T-DF180MA	18,5	350	1840,00
	T-DF180LA	22	350	2150,00
	T-DF200L	30	400	2840,00

B3/B5 Flanging: +5%

B14 Flanging: +8%

Different voltage or frequency: +4%

COUPLING KIT for pump and electric motor (B3-B5)
(MP FILTRI)

Coupling + Bellhousing	Code	Pump type	Motor power (kW)	€
	AKA03FS1M0Z4S	gear pump ALP1	0,37	24,74
	AKA04FS1M0Z4S	gear pump ALP1	0,5 - 0,7	30,80
	AKA05FS1M0Z4S	gear pump ALP1	1,1 - 1,5	30,80
	AKA07FS1M0Z4S	gear pump ALP1	2,2 - 4	42,63
	AKA05FS200Z4S	gear pump ALP2	1,1 - 1,5	36,91
	AKA07FS200Z4S	gear pump ALP2	2,2 - 4	42,63
	AKA11FS200Z4S	gear pump ALP2	5,5 - 7,5	75,78
	AKA11FS3M0Z4S	gear pump ALP3	5,5 - 7,5	75,78
	AKA12FS3M0Z4S	gear pump ALP3	11 - 15	144,76
	AKMM04Z0189FG	vane pump V 20	5,5 - 7,5	126,00
	AKMM05Z0189	vane pump V 20	11 - 15	195,00

(Coupling kits for different motor/pump types or combinations are available on request)

FILTERS

(MP FILTRI)

SUCTION	Code	Q _{max} (l/min)	Filtration (μ)	Ports	Ref.	€
	STR 0702 SG1M90	35	90	3/4" BSP	AZ-300	13,05
	STR 0704 SG1M90	55	90	1" BSP	AZ-300	14,73
	STR 1005 SG1M90	150	90	1 1/2" BSP	AZ-300	20,83

Supplied in 6pcs box

INLINE - H.P.	Code	Q _{max} (l/min)	P _{max} (bar)	Filtration (μ)	Ports	Ref.	€
	FHP 0651 BAG2 A25N	60	420	25	3/4" BSP	AZ-310	189,98
	FHP 1352 BAG2 A25N	100	420	25	1" BSP	AZ-310	336,22
	FHM 0061 SAG1 A25H	10	320	25	ISO 03	AZ-310	315,66

CARTRIDGES for inline filters FHP-FHM

Code	μ	Δp (bar)	€	Code	μ	Δp (bar)	€
HP 0651 A10N	10	20	34,19	HP 0651 A25N	25	20	27,87
HP 1352 A10N	10	20	66,75	HP 1352 A25N	25	20	51,84
HP 011-3 A10H ^(*)	10	210	87,42	HP 011-3 A25H ^(*)	25	210	82,61
V7	Visual gauge		63,21	E8	Electric gauge		93,76

(*) for FHM filters (ISO03)

RETURN - L.P.	Code	Q _{max} (l/min)	P _{max} (bar)	Filtration (μ)	Ports	Ref.	€
	MPH 1102 CDSAG2 A25	150	10	25	1" BSP	AZ-330	133,89
	MPH 2502 CDSAG1 A25	300	10	25	1 1/2" BSP	AZ-330	249,35
	MPH 6302 CDSAF1 A25	600	10	25	2 1/2" SAE	AZ-330	405,64

CARTRIDGES for return filters MPH

Code	μ	€	Code	μ	€
MR 1002 A10A	10	31,26	MR 1002 A25A	25	28,86
MR 2502 A10A	10	56,02	MR 2502 A25A	25	51,87
MR 6302 A10A	10	88,02	MR 6302 A25A	25	77,46
VR	Visual gauge (BVA14P01)	13,67	BEA15HA50P01	Electric gauge	46,69

SPIN-ON FILTERS - Ref. AZ-350

(MP FILTRI)

BODY	Code	Ports	Visual gauge	Fixing holes	€
	MPS 050-070 G1 VS	3/4" BSP	1/8" BSP	2 x M6	19,84

Price includes visual gauge VS

CARTRIDGES	Code	Q _{max} (l/min)	P _{max} (bar)	Filtration (μ)	Port	Ø (mm)	€
	CS 050 P25 A B	150	12	25	3/4" BSP	96	21,67
	CS 070 P25 A B	150	12	25	3/4" BSP	96	28,21

Supplied in 12pcs box

HEAT EXCHANGERS
(EMMEGI)

AIR - OIL	Code	Oil flow rate (l/min)	Oil ports	Power supply	Ref.	€
	MG AIR 2010 K (p.n. 251001201)	10 to 40	1/2" BSP	230V Single-Phase current	AZ-200	390,00
	MG AIR 2015 K (p.n. 251501201)	20 to 80	1" BSP	230V Single-Phase current	AZ-200	510,00
	MG AIR 2020 K (p.n. 252003201)	25 to 100	1" BSP	230V/400V 3-Phase current	AZ-200	540,00
	MG AIR 2024 K (p.n. 252403201)	30 to 120	1" BSP	230V/400V 3-Phase current	AZ-200	710,00

Price includes fixed range thermostat

(ABCO)

AIR - OIL	Code	Oil flow rate (l/min)	Oil ports	Power supply	Ref.	€
	CSL04.22.A.00	10 to 30	1/2" BSP	230V Single-Phase current	CSL	220,00
	CSL1.22.A.00	20 to 100	3/4" BSP	230V Single-Phase current	CSL	426,00
	CSL1.38.A.00	20 to 100	3/4" BSP	230V/400V 3-Phase current	CSL	423,00
	CSL2.38.A.00	30 to 130	3/4" BSP	230V/400V 3-Phase current	CSL	563,00

Price includes fixed range thermostat

(EMMEGI)

WATER - OIL	Code	Oil flow rate (l/min)	Oil ports	Water ports	Ref.	€
	MG 80-150/4	25 to 75	1" BSP	1/2" BSP	AZ-250	345,00
	MG 80-310/4	25 to 80	1" BSP	1/2" BSP	AZ-250	370,00
	MG 81-310/4	50 to 120	1 1/2" BSP	1/2" BSP	AZ-250	410,00
	MG 81-560/4	60 to 150	1 1/2" BSP	1/2" BSP	AZ-250	460,00

(ABCO)

WATER - OIL	Code	Oil flow rate (l/min)	Oil ports	Water ports	Ref.	€
	CSW3.15.4	20 to 70	1" BSP	1/2" BSP	CSW	313,00
	CSW3.31.4	30 to 90	1" BSP	1/2" BSP	CSW	341,00
	CSW4.31.4	55 to 125	1 1/2" BSP	1/2" BSP	CSW	368,00
	CSW4.56.4	65 to 155	1 1/2" BSP	1/2" BSP	CSW	417,00

SPOOL VALVE HYDRAULIC MOTORS
(EATON/CHAR-LYNN)

H SERIES (Gerotor)	Code	Displacement (cm ³ /rev)	rpm _{max}	P _{max} rated (bar)	P _{max} intermittent (bar)	Output torque at P rated (Nm)	€
	101-2158	32	1000	124	165	56	317,00
	101-2124	50	950	124	165	73	323,00
	101-2159	60	950	124	165	91	329,00
	101-2160	80	750	124	165	118	330,00
	101-2125	100	575	124	165	155	338,00
	101-2161	125	475	124	165	192	346,00
	101-2148	160	350	114	155	233	362,00
	101-2149	200	300	110	148	265	374,00
	101-2163	250	250	100	138	302	395,00
	101-2150	300	200	93	124	351	414,00
	101-2164	400	150	86	103	407	450,00

T SERIES (Geroler®)	Code	Displacement (cm ³ /rev)	rpm _{max}	P _{max} rated (bar)	P _{max} intermittent (bar)	Output torque at P rated (Nm)	€
	158-2803	50	900	155	190	105	417,00
	158-2804	80	700	155	190	174	427,00
	158-2805	100	550	155	190	219	433,00
	158-2972	130	400	138	172	251	438,00
	158-2806	160	350	138	172	297	441,00
	158-2807	200	300	138	172	359	456,00
	158-2808	250	225	127	155	410	473,00
	158-2809	300	175	110	124	441	500,00
	158-2810	375	150	90	103	430	525,00

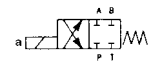
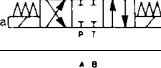
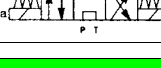
DISC VALVE HYDRAULIC MOTORS
(EATON/CHAR-LYNN)

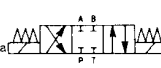
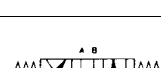
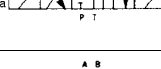
2000 SERIES (Geroler®)	Code	Displacement (cm ³ /rev)	rpm _{max}	P _{max} rated (bar)	P _{max} intermittent (bar)	Output torque at P rated (Nm)	€
	104-1384	80	800	205	310	235	607,00
	104-1385	100	750	205	310	295	615,00
	104-1386	130	575	205	310	385	619,00
	104-1387	160	475	205	260	455	625,00
	104-1388	200	400	205	260	540	635,00
	104-1389	250	300	205	260	660	646,00
	104-1390	315	250	205	240	765	661,00
	104-1391	400	200	155	190	775	684,00

4000 SERIES (Geroler®)	Code	Displacement (cm ³ /rev)	rpm _{max}	P _{max} rated (bar)	P _{max} intermittent (bar)	Output torque at P rated (Nm)	€
	109-1247	160	582	205	310	485	1045,00
	109-1231	205	459	205	260	600	1057,00
	109-1245	245	383	205	310	705	1067,00
	109-1246	310	303	205	260	850	1084,00
	109-1236	395	239	190	240	930	1105,00
	109-1234	495	191	140	170	945	1191,00

SOLENOID OPERATED VALVES - DIRECTIONAL CONTROL

(EATON-VICKERS)

ISO 03 NG06		Code	Q _{max} (l/min)	P _{max} (bar)	Size	Voltage	€
		DG4V3 2A MU H7	80	350	ISO 03	24V DC	156,40
		DG4V3 2A MU B6	80	350	ISO 03	115V AC	169,10
		DG4V3 2B MU H7	80	350	ISO 03	24V DC	156,40
		DG4V3 2B MU B6	80	350	ISO 03	115V AC	169,10
		DG4V3 0B MU H7	80	350	ISO 03	24V DC	156,40
		DG4V3 0B MU B6	80	350	ISO 03	115V AC	169,10
		DG4V3 2N MU H7	80	350	ISO 03	24V DC	211,20
		DG4V3 2N MU B6	80	350	ISO 03	115V AC	220,20
		DG4V3 0C MU H7	80	350	ISO 03	24V DC	194,80
		DG4V3 0C MU B6	80	350	ISO 03	115V AC	220,20
		DG4V3 2C MU H7	80	350	ISO 03	24V DC	194,80
		DG4V3 2C MU B6	80	350	ISO 03	115V AC	220,20
		DG4V3 6C MU H7	80	350	ISO 03	24V DC	194,80
		DG4V3 6C MU B6	80	350	ISO 03	115V AC	220,20
		DG4V3 8C VMU H7	80	350	ISO 03	24V DC	212,60
		DG4V3 8C VMU B6	80	350	ISO 03	115V AC	238,00

ISO 05 NG10		Code	Q _{max} (l/min)	P _{max} (bar)	Size	Voltage	€
		DG4V5 2AJ MU H	120	315	ISO 05	24V DC	257,00
		DG4V5 2A MU A	120	315	ISO 05	115V AC	257,00
		DG4V5 2NJ MU H	120	315	ISO 05	24V DC	370,80
		DG4V5 2N MU A	120	315	ISO 05	115V AC	370,80
		DG4V5 0CJ MU H	120	315	ISO 05	24V DC	347,60
		DG4V5 0C MU A	120	315	ISO 05	115V AC	347,60
		DG4V5 2CJ MU H	120	315	ISO 05	24V DC	347,60
		DG4V5 2C MU A	120	315	ISO 05	115V AC	347,60
		DG4V5 2C MU C	120	315	ISO 05	230V AC	347,60
		DG4V5 6CJ MU H	120	315	ISO 05	24V DC	347,60
		DG4V5 6C MU A	120	315	ISO 05	115V AC	347,60
		DG4V5 6C MU C	120	315	ISO 05	230V AC	347,60
		DG4V5 8CJ VMU H	120	315	ISO 05	24V DC	398,00
		DG4V5 8CJ VMU A	120	315	ISO 05	115V AC	398,00

Coils are included in the price

COILS for VICKERS solenoid operated valves

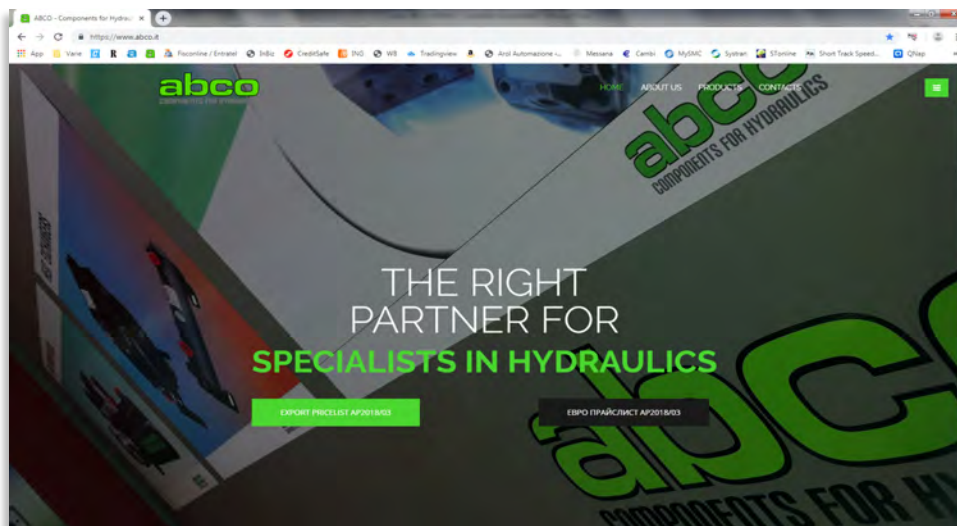
	Code	€
	BV3 H7	Coils for ISO 03 electrovalves 24V DC 145,00
	BV3 B6	Coils for ISO 03 electrovalves 115V AC 145,00
	BV5 H	Coils for ISO 05 electrovalves 24V DC 211,00
	BV5 A	Coils for ISO 05 electrovalves 115V AC 211,00

Electrical connection by standard ISO 4400 plugs (see page 5 of pricelist or table AZ-100)

OIL-FILLING GROUP

FILTERING / TRANSFERRING	Code	Dimensions (mm)	Electric supply	€
	50300A	L322 x W290 x H900	0,75kW - 230V AC mono	854,00
	Mass	Filter type	Pump type	Noise level
	28kg	Spin-on 10μ	Vane pump 25 l/min	70dB(A)

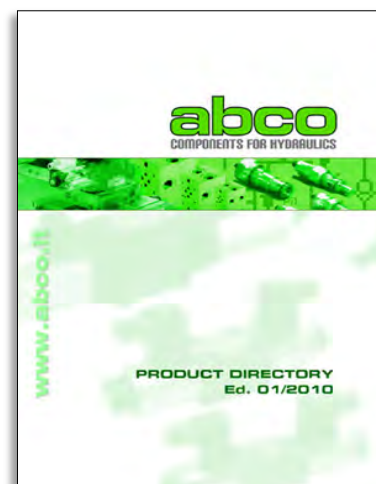
www.abco.it



PDF datasheets of components mentioned in this pricelist
PDF version of this pricelist, for quick reference
The latest updated technical information
Highlights on new products

PRODUCT DIRECTORY

The printed **general catalogue**.
Ask us a copy (free shipping).



QUALITY

Quality System certified according to
UNI EN ISO 9001:2015





abco COMPONENTS FOR HYDRAULICS
(incorporated company and brand of)

arol automazione srl

ITALY – 21013 GALLARATE (VA) – Via Olanda, 5
Tel. +39 02 66015524 – Fax +39 0331 793880
E-mail : info@abco.it – Website : www.abco.it



Quality System Certified
UNI EN ISO 9001:2015

