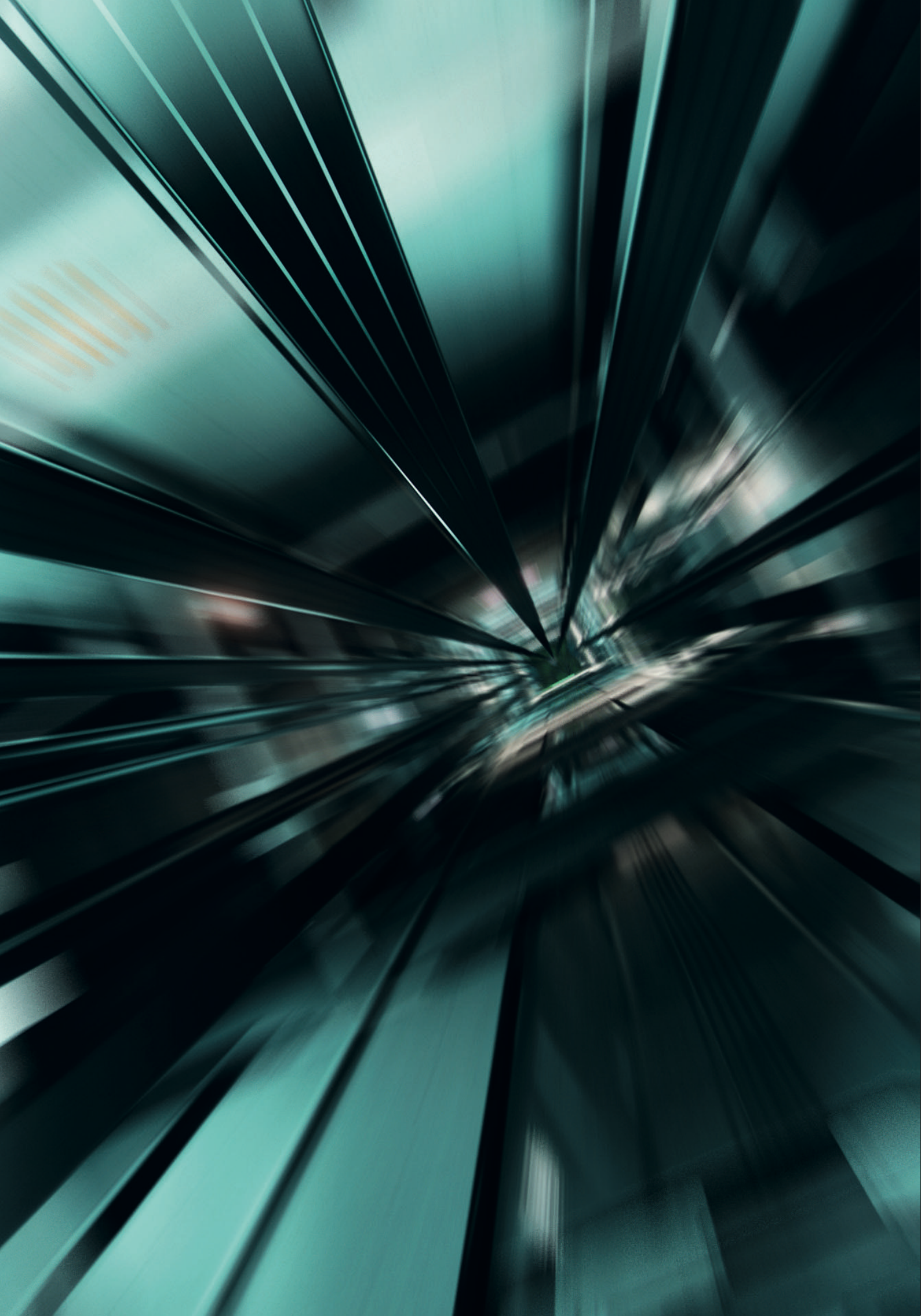
LIFT

START ELEVATOR

OLEODINAMIC COMPONENTS FOR LIFTS



START ELEVATOR
OLEODINAMIC COMPONENTS FOR LIFTS

Hydraulic components for lifts and elevators

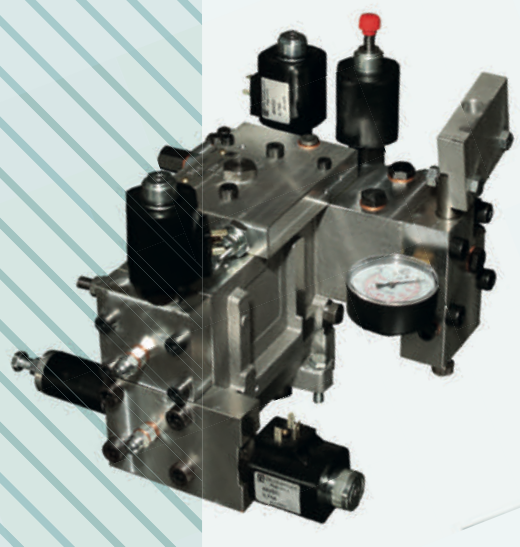
Design and production of hydraulic components for lifts and elevators.
Highly skilled in the creation of Special Plants.

Since 1967 START ELEVATOR HYDRAULIK has produced "Oleodynamic Groups for Elevators and Equipment-Lifts".
Thanks to "on-site" design and construction of fundamental components, to technological innovation and to the presence of highly specialized staff, START ELEVATOR Srl has turned into a very competitive company, able to guarantee product quality and to promply respond to everything the market requires.

Technology
Thanks to the total domestic production of all components using modern tools and constantly updated, specialized and trained personnel with years of experience, allows Start Elevator to respect the most important prerogative: the Product Quality.

Establishment
The Company, founded in a small workshop of a few hundred square meters, thanks to continuous investment in research and development of its products, now has a Start Elevator home to more than 5000 square meters with the capacity and flexibility to satisfy every request in a short time.

VALVE GROUP 93E–2DS



Valve Group 93E–2DS

Technical Features Valve Group 93E–2DS

Cast Aluminium body

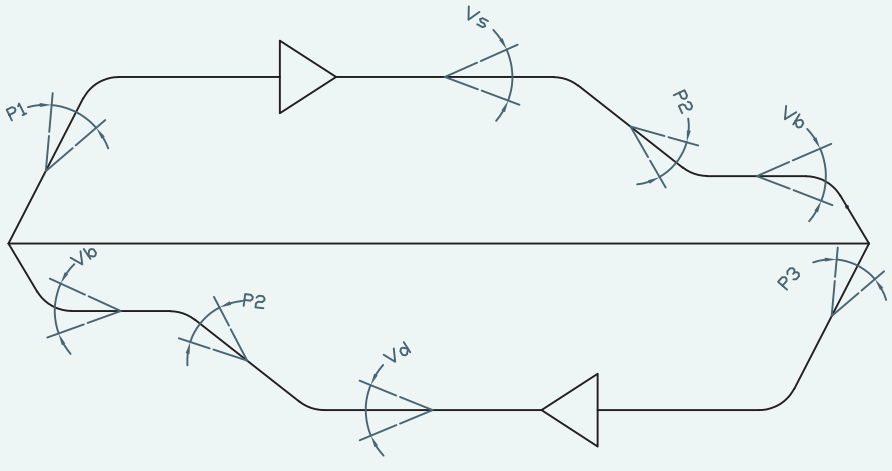
Flow Range 55-380 Lt/mi

Pressure Range 10 – 45 Bar

Temperature Range 8 – 60 °C

Viscosity 14 – 290 Cst

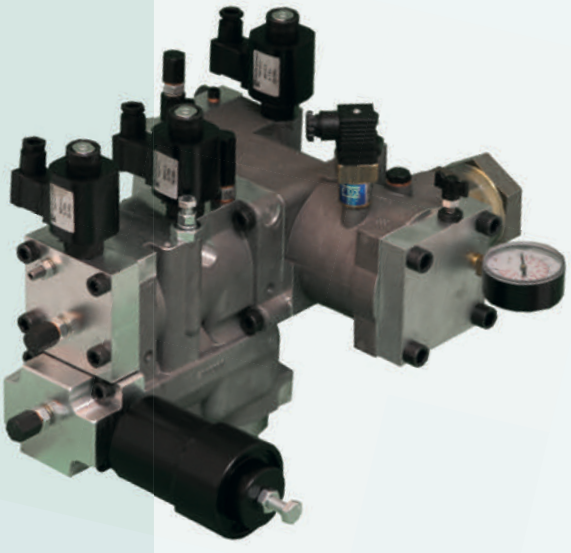
A3 integrated



Parameters

P1 Adjustable acceleration ramp
P2 Adjustable deceleration
P3 Adjustable deceleration ramp
Vs Adjustable High speed in up direction
Vd Adjustable High speed in down direction
Vb Adjustable slow speed

VALVE GROUP 02E



Valve Group 02E

Technical Features Valve Group 02E

Cast Aluminium body

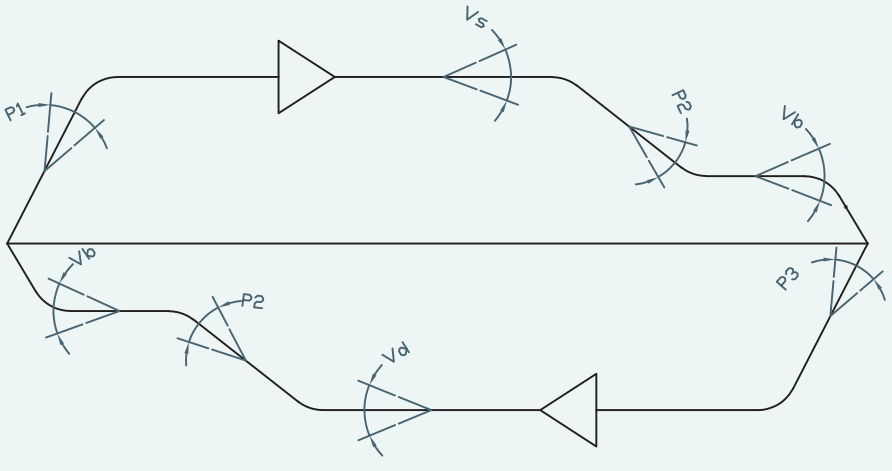
Flow Range 380-660 Lt/min

Pressure Range 10 – 45 Bar

Temperature Range 8 – 60 °C

Viscosity 14 – 290 Cst

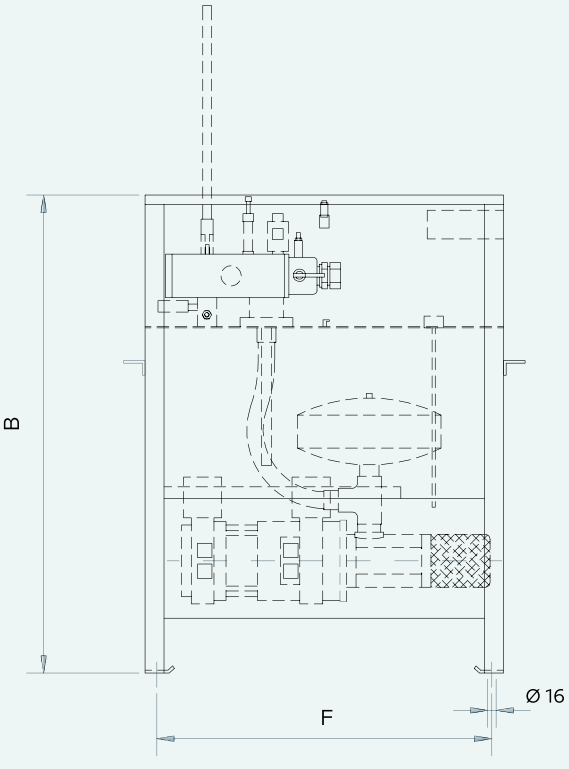
A3 integrated

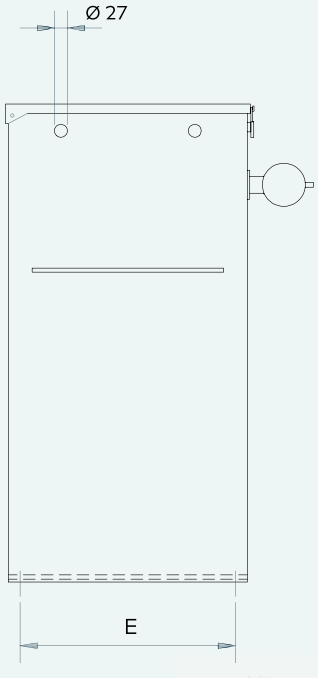


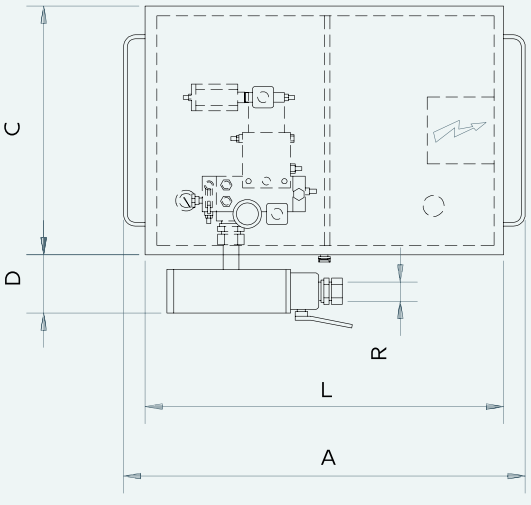
Parameters

P1 Adjustable acceleration ramp
P2 Adjustable deceleration
P3 Adjustable deceleration ramp
Vs Adjustable High speed in up direction
Vd Adjustable High speed in down direction
Vb Adjustable slow speed

PUMP UNIT
FOR MACHINE ROOMS

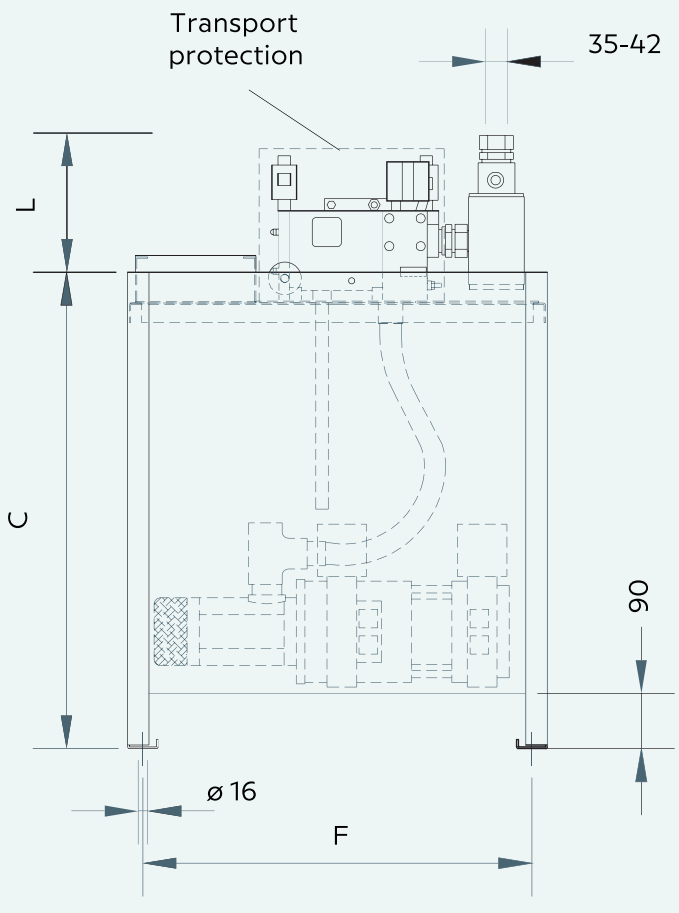


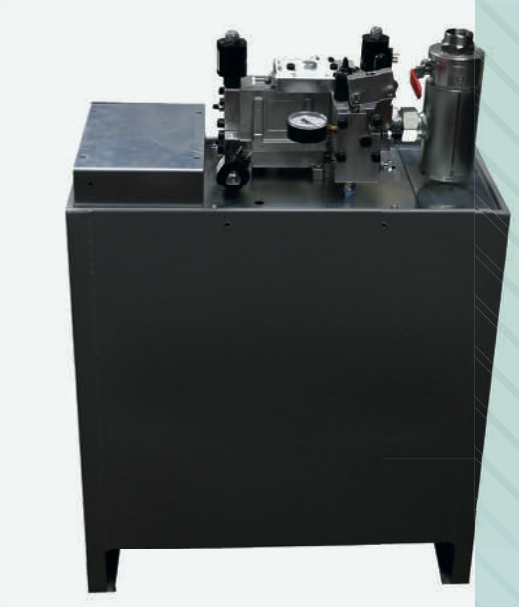




Tank Type	Pump Type [l/min]	DIMENSIONS [mm]								CAPACITY [litres]	
		A	B	C	D	E	F	L	R	Min. Level	Available
90 / 00	55 - 150	830	1000	420	120	370	700	750	35 - G 1"1/4	45	105
90 / 02 / A	150 KW = 16	930	1000	500	120	450	800	850	35 - G 1"1/4	75	150
	180 - 205	930	1000	500	130	450	800	850	42 - G 1"1/2	75	150
90 / 02	180 - 205 KW>=20	1080	1000	600	130	550	950	1000	42 - G 1"1/2	100	210
	250 - 300	1080	1000	600	130	550	950	1000	42 - G 1"1/2	100	210
90 / 03	250 - 380 KW>=24	1180	1100	600	130	550	950	1100	42 - G 1"1/2	110	300

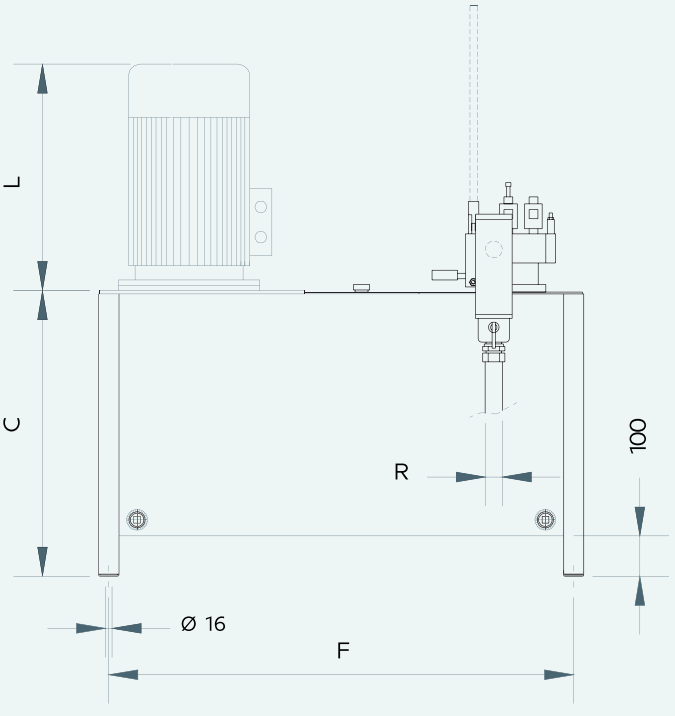
PUMP UNIT
MRL

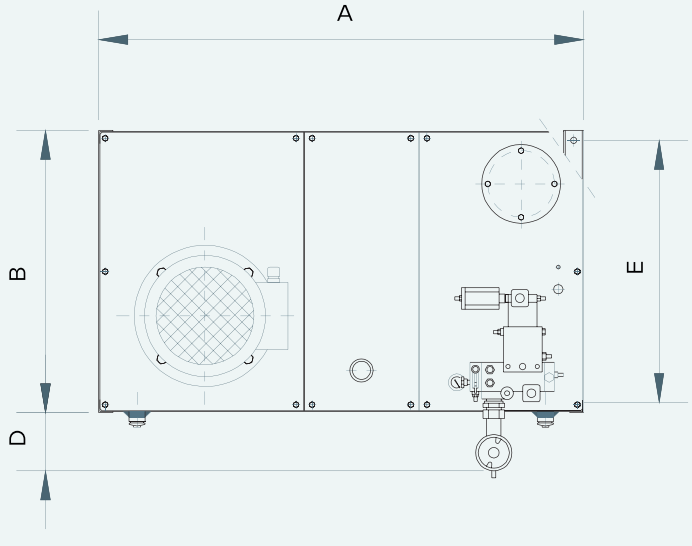




Tank type	Pump type Max	DIMENSIONS [mm]						CAPACITY [litres]		WEIGHT [Kg]
		A	B	C	E	F	L	Min. Level	Available	
93 01 SL	150 l/min 12 kW	680	320	740	270	630	250	40	8 5	130
93 02 SL	205 l/min 20 kW	780	320	740	270	730	250	47	9 7	135
93 02A SL	250 l/min 20 kW	830	420	740	370	780	250	58	1 20	150
93 03 SL	380 l/min 40 kW	950	600	740	550	900	250	95	1 90	250

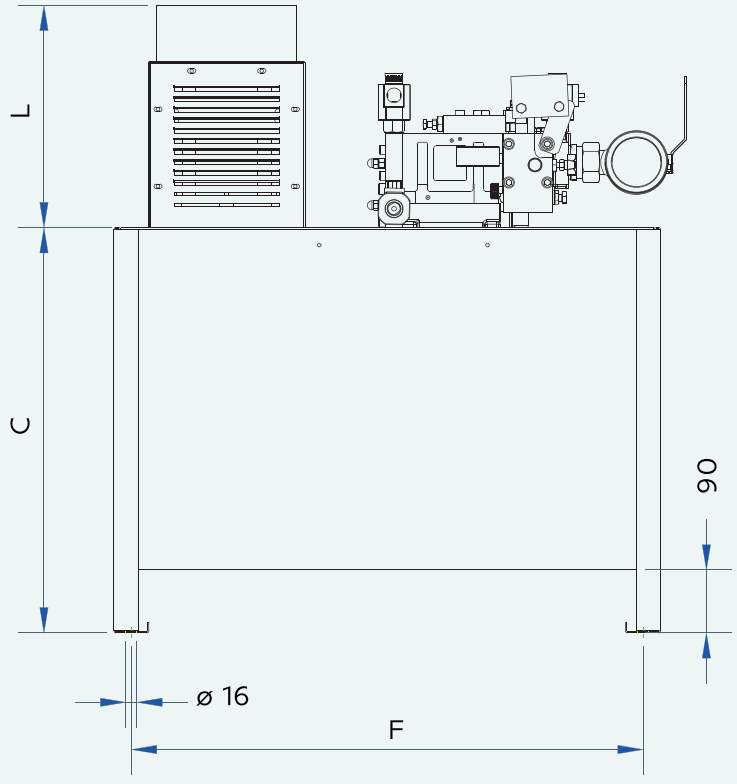
PUMP UNIT
WHIT AIR MOTORS

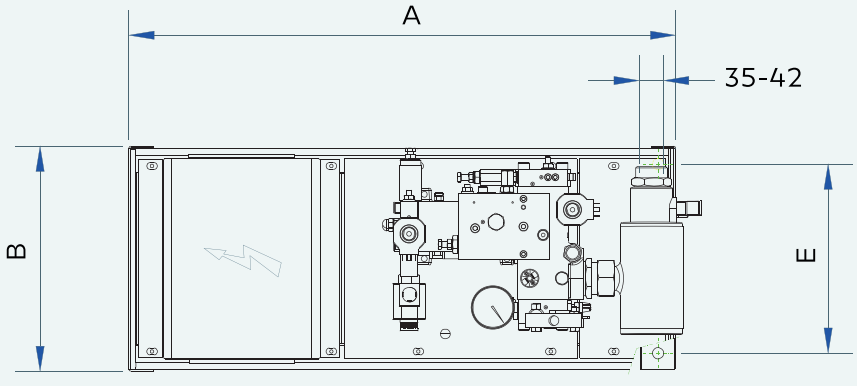




Tank Type	Pump Type [l/min]	Motor Type [kW]	DIMENSIONS [mm								CAPACITY [litres]	
			A	B	C	D	E	F	L	R	Min. Level	Available
02 / 03	**55 - 150** **180 - 250**	**5.5 - 22**	1100	600	700	120 130	550	1050	600	35 - G 1"1/4 42 - G 1"1/2	65	230
02 / 04	**250 - 380**	**30 - 37**	1200	700	700	130	650	1150	700	42 - G 1"1/2	70	300
02 / 07	**440 - 660**	**15 - 75**	1400	750	920	165	700	1350	800	G 2"	115	550

PUMP UNIT AE

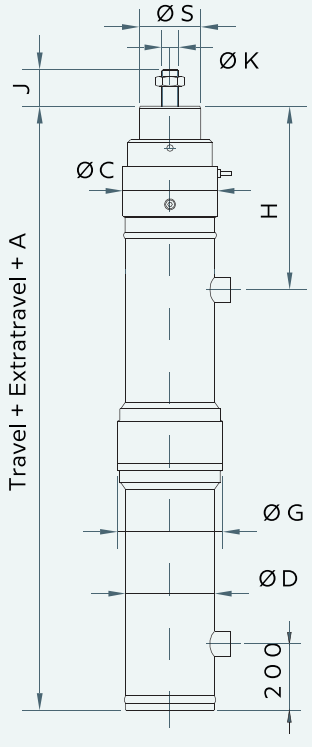




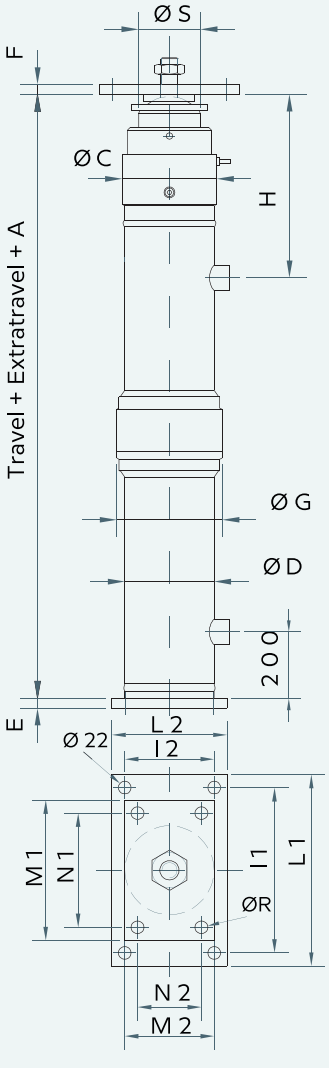
Tank type	Pump type Max	DIMENSIONS [mm]						CAPACITY [litres]		WEIGHT [Kg]
		A	B	C	E	F	L	Min. Level	Available	
93 02 SLAE	**55-70**	780	320	580	270	730	320	17	64	130
	100-150	780	320	580	270	730	320	17	73	130
93 02A SLAE	**55-70**	830	420	740	370	780	320	44	89	150
	100-150	830	420	740	370	780	320	44	102	150
	180-205	830	420	740	370	780	320	44	112	150

PISTONS

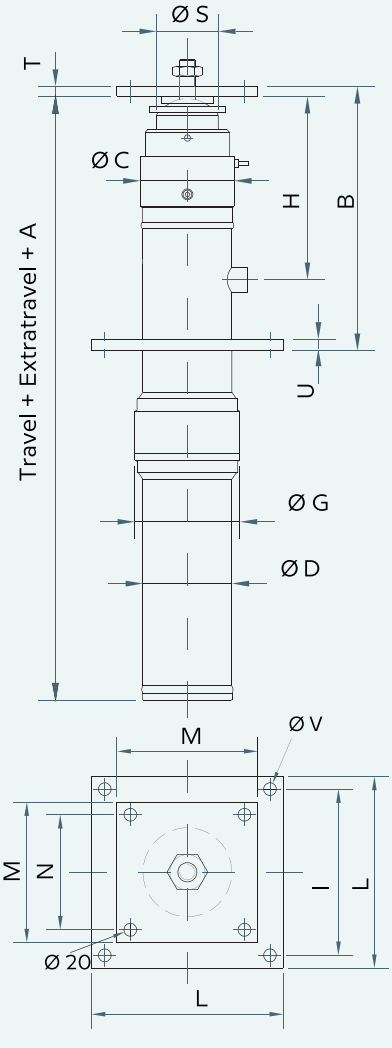
INDIRECT ACTING 2 :1



DIRECT SIDE ACTING WITH PLATES



DIRECT CENTRAL ACTING

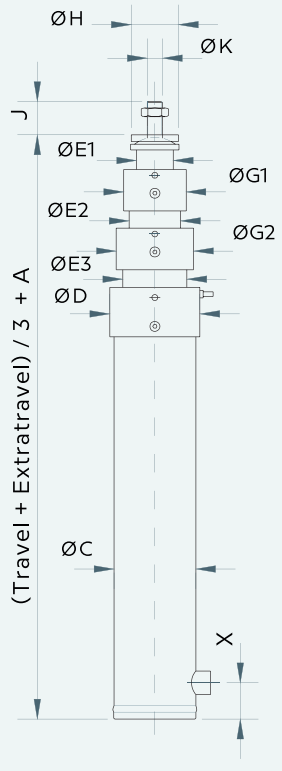


Upper and lower plates are supplied in the side direct execution only if requested

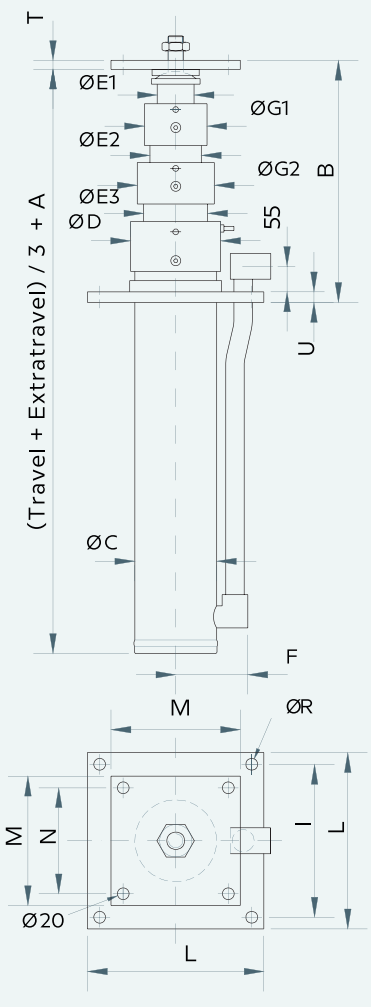
Rif. Ø S	DIMENSIONS [mm]																						
	A	A1	B	ØC	Ø D	E	F	Ø G	H	Ø K	J	I	I1 x I2	L	L1 x L2	M	M1xM2	N	N1xN2	ØR	T	U	ØV
60	262	262	560	114	101,6	20	20	130	345	M30	45	200	250x80	240	300x130	240	250x150	200	200x100	20	15	20	20
70	262	262	560	114	101,6	20	20	130	345	M30	45	200	250x80	240	300x130	240	250x150	200	200x100	20	15	20	20
80	272	272	560	132	114,3	20	20	139	355	M30	45	260	250x120	300	300x170	300	250x150	260	200x100	20	15	20	20
90	272	272	560	150	133	20	20	159	355	M30	45	260	250x120	300	300x170	300	250x150	260	200x100	20	15	20	20
100	272	272	560	157	139,7	20	20	168	355	M30	45	260	250x120	300	300x170	300	250x150	260	200x100	20	15	20	20
110	282	282	560	168	159	25	20	193	360	M30	45	360	350x160	400	400x210	300	250x150	260	200x100	20	20	30	20
120	290	290	600	177	159	25	20	193	368	M30	45	360	350x160	400	400x210	300	250x150	260	200x100	20	20	30	20
130	285	285	600	202	177,8	25	20	218	388	M30	50	360	350x160	400	400x210	300	250x150	260	200x100	20	20	30	20
150	325	325	600	218	193,7	25	25	242	393	M30	55	360	350x200	400	400x250	300	300x200	260	250x150	22	25	30	20
180	380	380	600	270	244,5	25	25	325	423	M30	55	460	400x230	500	450x280	300	300x200	260	250x150	22	25	40	20
200	380	380	600	298	273	25	30	375	415	M30	70	460	400x270	500	450x320	400	400x300	360	350x250	24	30	40	20
230	458	488	750	323	298,5	30	30	383	500	M30	/	520	450x300	600	500x350	400	400x300	360	350x250	24	30	40	32
280	555	585	750	405	355,6	30	35	/	530	M45	70	520	550x360	600	600x410	500	500x400	460	450x350	26	35	45	32

TELESCOPIC PISTONS

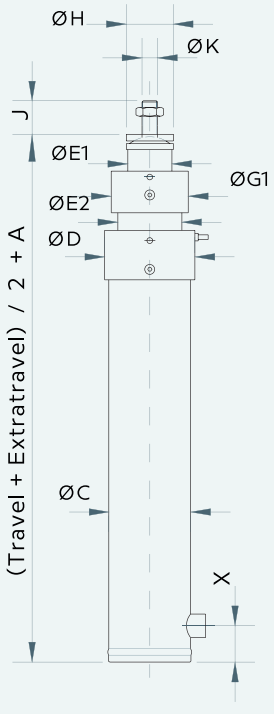
THREE ELEMENTS DIRECT SIDE



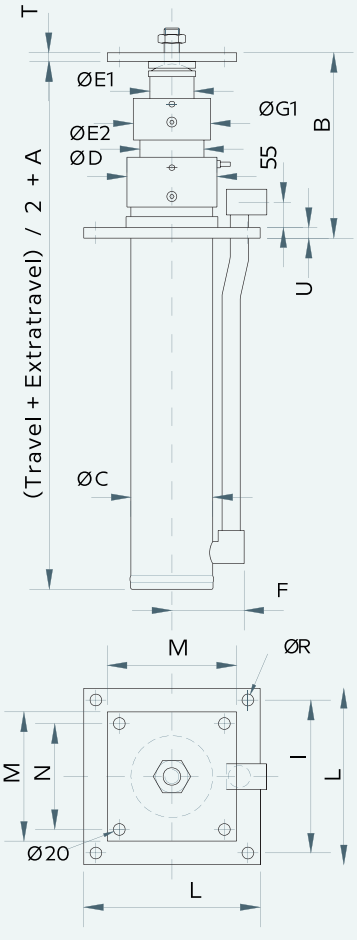
THREE ELEMENTS DIRECT CENTRAL



TWO ELEMENTS DIRECT SIDE



TWO ELEMENTS DIRECT CENTRAL



Elements Number	Piston Type	DIMENSIONS [mm]																				
		A	B	ØC	ØD	ØE1	ØE2	ØE3	F	ØG1	ØG2	ØH	ØK	J	I	L	M	N	ØR	T	U	X
	46/2	425	365	80	100	35	55	/	110	74	/	70	M16	53	250	300	240	200	20	15	20	50
(2)	60/2	378	380	100	106	48	70	/	120	83	/	85	M20	53	250	300	240	200	20	15	20	50
(1)	78/2	555	420	130	150	64,5	89	/	140		/		M30		310	420	240	200	20	15	25	50
	85/2	555	420	140	160	70	98	/	145	116	/	100	M30	53	310	420	240	200	20	15	25	50
TWO	103/2	630	450	165	190	85	118	/	160	137	/	100	M30	52	310	420	300	260	20	20	25	55
	120/2	670	460	190	220	97	140	/	175	161	/	100	M30	52	370	500	300	260	24	20	30	60
	141/2	750	480	229	254	120	160	/	205	188	/	150	M30	54	370	500	300	260	24	25	35	65
	170/2	840	530	273	300	146	190	/	230	215	/	150	M30	54	450	600	300	260	24	25	40	70
	205/2	910	560	324	350	180	228	/	255	256	/	200	M30	57	500	600	360	320	24	30	45	70
	58/3	680	520	120	135	35	55	76	140	74	96	70	M16	53	250	300	240	200	20	15	20	55
	75/3	735	550	150	170	48	70	98,5	150	89	118	85	M20	53	310	420	240	200	20	15	25	55
	98/3	835	585	190	215	64,5	89	130	170	106	149	100	M30	42	310	420	240	200	20	20	25	55
	107/3	855	585	210	240	70	98	140	185	116	161	100	M30	53	370	500	240	200	24	20	30	60
THREE	127/3	955	660	245	280	85	118	165	200	137	188	100	M30	52	370	500	300	260	24	20	35	65
	127/3 LV	975	680	245	280	85	118	165	200	137	188	100	M30	52	370	500	300	260	24	20	35	65
	150/3	1020	680	298	325	97	140	197	240	161	215	100	M30	54	450	600	300	260	24	25	40	70
	150/3 LV	1040	700	298	325	97	140	197	240	161	215	100	M30	54	450	600	300	260	24	25	40	70
	176/3	1115	715	355	380	120	160	230	265	188	256	150	M30	54	500	600	300	260	24	25	45	75
	176/3 LV	1135	735	355	380	120	160	230	265	188	256	120	M30	54	500	600	300	260	24	25	45	75

(1) replaced by the piston 77/2 (page 10151)
(2) for 60/2 DL Home piston version see page 10153

START ELEVATOR

COMPONENTI OLEODINAMICI PER ASCENSORI