Heavy Duty Cylinders

aircontrol

www.aircontrol-metals.com

Lifelong

1962... We have already been manufacturing pneumatic cylinders for half a century now. We can say that this is a lifetime's work. Time flies, as does innovation, and we never tire of manufacturing pneumatic cylinders and continuously improving our products; it's part of us, of our identity, impossible to erase. It's in our history, in our present and our future. We are "the cylinder company".

We could give a boring speech to introduce our "lifelong" product, but we don't want to, nor need to. We all know that pneumatic cylinders exist and we know their basic functions; like all pneumatic cylinder manufacturers, we know how to make them. Some do it better than others, but we all know how to do it. It's like learning to ride a bike... or to swim. You learn it and never forget. Some go to the pool on occasions and dare to take a dip in the sea on their holidays. Others go further, driven by their passion for water... They swim deeper, they last longer under water, swim faster, in different styles and catch the waves that take them further... We are this last type of swimmer.

As we have explained before, the difference between one swimmer and the other lies particularly in their passion. That passion that we also have for the will to supply products of the best quality, for promoting what a "good service" really is... For achieving the recognition of our clients that makes us continue innovating and working with even more passion and motivation. Because it feels good when you are acknowledged for your good work. At the end of the day, it's yours... "lifelong".

AirControl, passion for cylinders...

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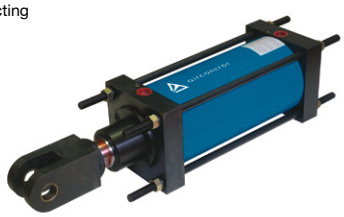
Heavy Duty cylinders

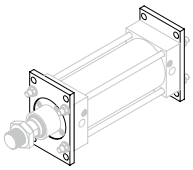
30-35 Series

Ø 50 ... 300 mm
Double Acting

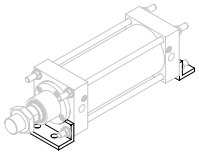


Fixing elements

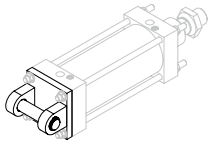
Flange



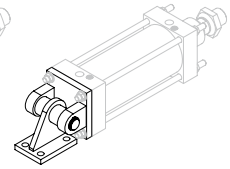
Bracket



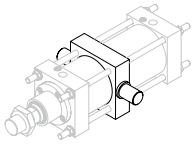
Female Hinge



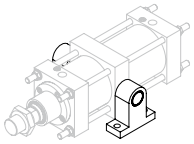
Rear 90° Hinge



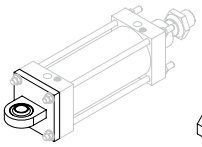
Intermediate Hinge



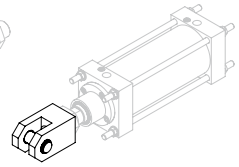
Intermediate Hinge Bearing



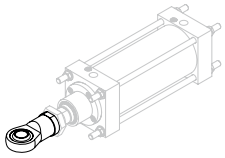
Rear Hinge with Ball Joint



Yoke with Pivot



Ball Joint



Technical information

Fluid

AirControl cylinders are designed to work with non-lubricated air, which means that the cylinder components are lubricated in order to guarantee a correct operation. If you decide to use lubricated air, it's important that the use is continuous, since this lubrication removes the one applied in the assembly phase.

Strokes

All strokes available upon request.

Parameters

Bore: inside diameter of the cylinder liner (mm)
Stroke: working travel (mm)
Working pressure: (bar)
Working temperature: (ºC)
Travel speed: (m/s)
Damping force: (Nm)
Air consumption: (nl/min)
Theoretical force: (N)

Installation recommendations

All of our cylinders are tested before delivering them to our customers. We recommend not to take off the plastic plugs that protect the air inlet until the tubing is connected.

In all delivered cylinders, the level of cushioning is adjusted to an intermediate position. However, and depending on the working load, it could be necessary to make an additional readjustment. If a higher level of cushioning is required, turn the bolt clockwise. If less cushioning is needed, turn it the other way around.

Compressed air must be clean. Therefore, it is necessary to install an air filter that eliminates both dust particles of a size of more than 5 microns and water condensation. Although our cylinders are perfectly capable of oil-less working, we recommend lubricating the compressed air, because it increases the seals' life. The lubricator must be connected to the supply line, as close as possible to the valve. Use a petroleum-based mineral oil with a compressed viscosity between 2 and 2,5 Engler at 50ºC with an aniline point above 85ºC.

In order to avoid cylinder working pressure variations and save in air consumption, it is recommended to place a pressure regulator between the filter and lubricator.

Air consumption calculation

Bore (mm)	Air pressure (bar)								
	2	3	4	5	6	7	8	9	10
50	0,060	0,079	0,099	0,118	0,138	0,158	0,177	0,197	0,217
63	0,095	0,126	0,157	0,188	0,219	0,250	0,282	0,313	0,344
80	0,152	0,203	0,253	0,303	0,354	0,404	0,454	0,504	0,555
100	0,238	0,317	0,395	0,474	0,552	0,631	0,709	0,788	0,867
125	0,372	0,495	0,618	0,740	0,863	0,986	1,109	1,231	1,354
160	0,610	0,811	1,012	1,213	1,414	1,615	1,816	2,017	2,218
200	0,953	1,267	1,581	1,895	2,209	2,524	2,838	3,152	3,466
250	1,489	1,980	2,471	2,961	3,452	3,943	4,434	4,925	5,416
300	2,144	2,851	3,558	4,264	4,971	5,678	6,385	7,092	7,799

Air consumption in thrust/traction in Nl/min by cms. of stroke, according to the pressure (bar) at 20°C.

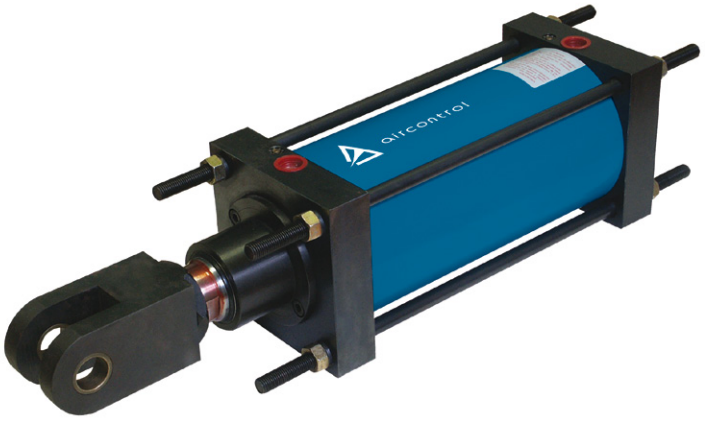
Force calculation

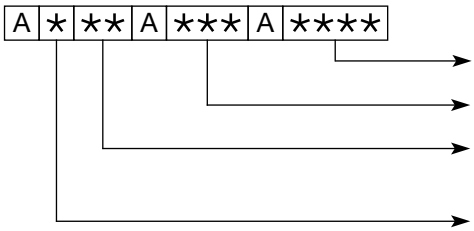
Bore	Available area	Force (kg) at pressure (bar)									
		cm^2	2	3	4	5	6	7	8	9	10
50	Thrust	20	39	58	77	96	116	135	154	173	193
	Traction	16	32	48	63	79	95	111	127	143	158
63	Thrust	31	61	92	122	153	184	214	245	275	306
	Traction	25	50	75	100	125	150	175	200	225	250
80	Thrust	50	99	148	197	247	296	345	395	444	493
	Traction	42	84	127	169	211	253	296	338	380	422
100	Thrust	79	154	231	308	385	462	539	616	693	771
	Traction	66	132	198	264	330	396	462	528	594	660
125	Thrust	123	241	361	482	602	722	843	963	1084	1204
	Traction	103	206	309	412	515	619	722	825	928	1031
160	Thrust	201	395	592	789	986	1184	1381	1578	1775	1972
	Traction	173	346	518	691	964	1037	1210	1382	1555	1728
200	Thrust	314	616	925	1233	1541	1849	2157	2466	2774	3082
	Traction	286	572	858	1144	1429	1715	2001	2287	2573	2859
250	Thrust	491	963	1445	1926	2408	2889	3571	3852	4334	4816
	Traction	447	893	1340	1787	2234	2680	3127	3574	4020	4467
300	Thrust	707	1357	2080	2774	3467	4161	4854	5547	6241	6934
	Traction	663	1325	1988	2651	3313	3976	4639	5301	5964	6627

Dynamic forces of thrust/traction in kg.

30 and 35 Series
Heavy Duty cylinders

The pneumatic cylinders of the 30 and 35 series are designed to work in extreme conditions and hostile environments for a long time. They are available with or without tie rods and in bores from 50 to 300 mm. All these cylinders are suitable for installations that need a high number of cycles. Their main application areas can be found in the iron and steel industry, glass industry, paper industry, mining, machinery for public works and automotive industry.





Codification

Stroke (mm)	
Internal bore (mm)	
30	With tie rods
35	Without tie rods
0	Standard cylinder
A	High temperature (HT)
F	Bellows
K	Stainless steel piston rod
L	Stainless steel piston rod + HT seals

Strokes

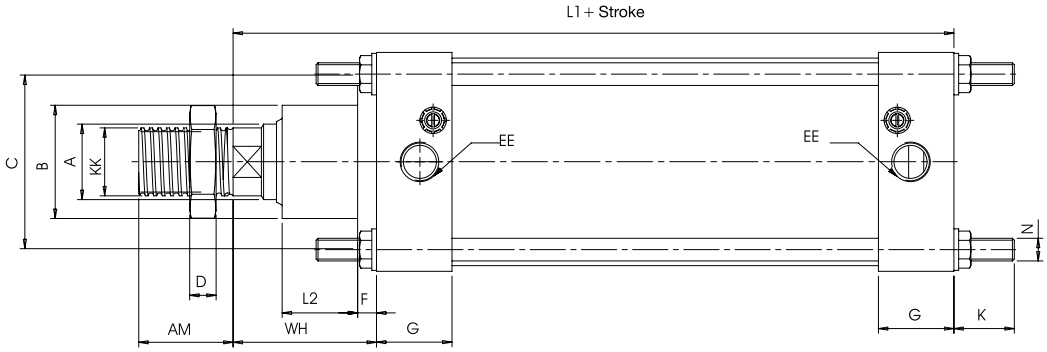
All strokes available according to the customer´s needs.

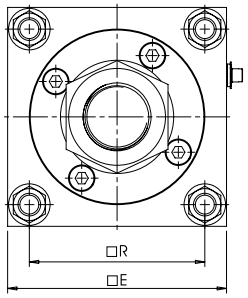
Technical specifications

Cylinder heads	Rolled steel
Piston rod	Chrome-plated and rolled ground steel (stainless steel on request)
Piston	Rolled steel
Tie rods	Rolled steel
Liner	Chrome-plated and honed ST-52 rolled steel
Seals	NBR (Viton on request)
Cushioning	Adjustable at both ends
Environmental temperature range	-30ºC → +80ºC
Fluid temperature range	0ºC → +40ºC (-30ºC → +200ºC with Viton seals)
Lubrication	Not required
Fluid	Filtered air
Maximum operating pressure	10 bar
Forces	Technical information page
Air consumption	Technical information page

30 and 35 Series
Heavy Duty cylinders

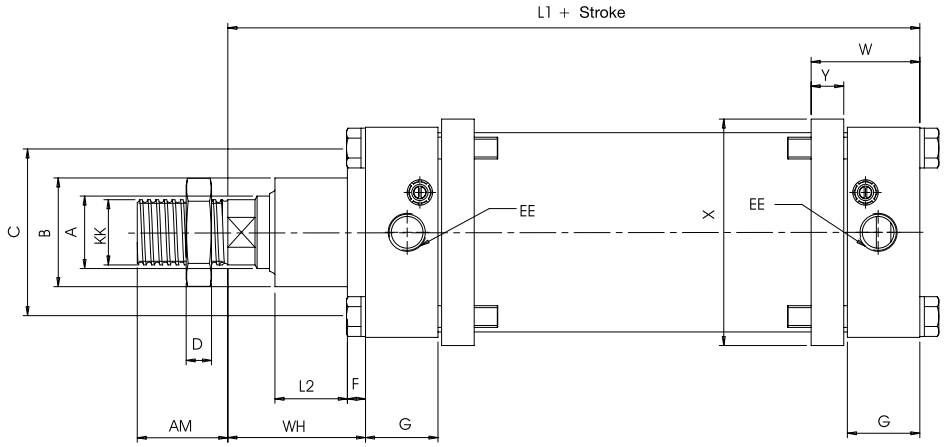
30 Series

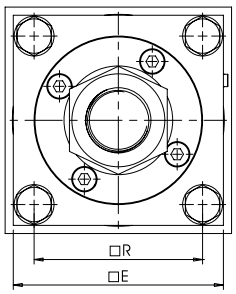




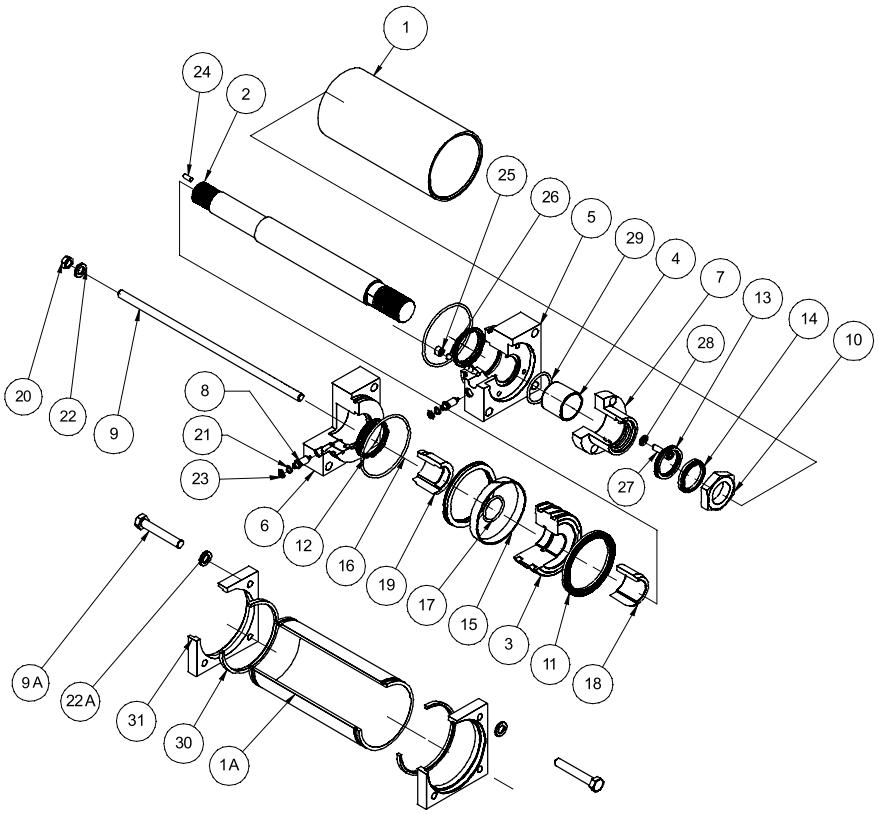
Ø	A	B	C	D	E	EE	F	G	K	L1	L2	N	R	W	WH	X	Y	AM	KK
50	22	45	0	9	70	1/4”	0	33	23	179 $^{\pm 1}$	35	M.8	53	46,5	55	70	12	35	M.20X2,5
63	28	52	0	10	80	3/8”	0	33	23	187 $^{\pm 1,2}$	41	M.10	62	46,5	63	80	12	45	M.24X3
80	32	52	0	12	95	3/8”	0	33	24	199 $^{\pm 1,2}$	45	M.10	76	49	67	102	15	45	M.27X3
100	40	60	92	14	116	1/2”	10	40	32	232 $^{\pm 1,2}$	40	M.12	93	60	76	125	18	50	M.36X4
125	50	75	110	16	145	1/2”	8	45	35	243 $^{\pm 1,2}$	42	M.14	115	67	75	155	20	55	M.42X4,5
160	60	85	125	20	182	3/4”	8	45	37	264 $^{\pm 1,7}$	60	M.16	145	72	93	198	25	75	M.52X3
200	60	85	125	20	225	3/4”	10	56	46	320 $^{\pm 1,7}$	60	M.20	180	88	114	245	30	75	M.52X3
250	75	105	150	28	275	1”	10	60	48	359 $^{\pm 2}$	63	M.24	220	97	125	300	35	100	M.68X4
300	75	105	150	28	325	1”	10	60	48	359 $^{\pm 2}$	63	M.27	260	97	125	355	35	100	M.68X4

35 Series





30 and 35 Series
Heavy Duty cylinders



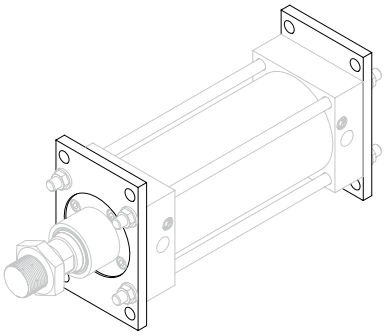
Num.	Description	Units	Bore								
			50	63	80	100	125	160	200	250	300
1	Liner	1	30BA05AXXXX	30BA06AXXXX	30BA08AXXXX	30BA10AXXXX	30BA12AXXXX	30BA16AXXXX	30BA20AXXXX	30BA25AXXXX	30BA30AXXXX
2	Piston rod	1	30CA05AXXXX	30CA06AXXXX	30BA08AXXXX	30CA10AXXXX	30CA12AXXXX	30CA16AXXXX	30CA20AXXXX	30CA25AXXXX	30CA25AXXXX
3	Piston	1	30 FE 05 A	30 FE 06 A	30 FE 08 A	30 FE 10 A	30 FE 12 A	30 FE 16 A	30 FE 20 A	30 FE 25 A	30 FE 30 A
4	Guide bush	1	30 05 04	30 06 04	30 08 04	70 16 04	30 12 04	30 16 04	30 16 04	30 25 04	30 25 04
5	Front cylinder head	1	30 FA 05 A	30 FA 06 A	30 FA 08 A	30 FA 10 A	30 FA 12 A	30 FA 16 A	30 FA 20 A	30 FA 25 A	30 FA 30 A
6	Rear cylinder head	1	30 FB 05 A	30 FB 06 A	30 FB 08 A	30 FB 10 A	30 FB 12 A	30 FB 16 A	30 FB 20 A	30 FB 25 A	30 FB 30 A
7	Guide bracket	1				30 FH 10 A	30 FH 12 A	30 FH 16 A	30 FH 20 A	30 FH 25 A	30 FH 30 A
8	Regulator	2	30 FL 05 A	30 FL 06 A	30 FL 06 A	30 FL 10 A	30 FL 10 A	30 FL 10 A	30 FL 20 A	30 FL 20 A	30 FL 20 A
9	Tie rod	4	30DA05AXXXX	30DA06AXXXX	30DA08AXXXX	30DA10AXXXX	30DA12AXXXX	30DA16AXXXX	30DA20AXXXX	30DA25AXXXX	30DA30AXXXX
10	Locknut	1	30 05 10	30 06 10	30 08 10	30 10 10	30 12 10	30 16 10	30 16 10	30 25 10	30 25 10
*11	Collar	2	-	-	-	-	-	-	-	-	-
*12	Cushioning seal	2	-	-	-	-	-	-	-	-	-
*13	Collar	1	-	-	-	-	-	-	-	-	-
*14	Piston rod scraper	1	-	-	-	-	-	-	-	-	-
*15	Slipping segment	1	-	-	-	-	-	-	-	-	-
*16	O-Ring	2	-	-	-	-	-	-	-	-	-
*17	O-Ring	1	-	-	-	-	-	-	-	-	-
18	Front cushioning bush	1	30 FJ 05 A	30 FJ 06 A	30 FJ 08 A	30 FJ 10 A	30 FJ 12 A	30 FJ 16 A	30 FJ 20 A	30 FJ 25 A	30 FJ 25 A
19	Rear cushioning bush	1	30 FK 05 A	30 FK 06 A	30 FK 08° A	30 FK 10 A	30 FK 12 A	30 FK 16 A	30 FK 20 A	30 FK 25 A	30 FK 25 A
20	Bichromated nut	8	26 05 20	26 08 20	26 08 20	26 12 20	30 12 20	26 16 20	26 25 20	26 30 20	30 30 20
*21	O-Ring	2	-	-	-	-	-	-	-	-	-
22	Washer	8		26 08 22	26 08 22	26 12 22	30 12 22	26 16 22	26 25 22	30 25 22	30 30 22
23	Lock washer	2	70 08 23	70 08 23	70 06 23	70 06 23	70 06 23	70 06 23	70 10 19	70 10 19	70 10 19
24	Setscrew	1	30 05 24	30 05 24	30 05 24	30 10 24	30 10 24	30 10 24	30 10 24	30 10 24	30 10 24
25	Locknut	2	-	30 06 25	30 FM 08 A	30 FM 10 A	30 FM 10 A	30 FM 16 A	30 FM 16 A	30 FM 25 A	30 FM 25 A
26	Latch ball	2	-	30 06 26	30 08 26	30 10 26	30 10 26	30 16 26	30 16 26	30 25 26	30 25 26
27	Allen screw	4	-	-	-	30 10 27	30 10 27	30 16 27	30 16 27	30 25 27	30 25 27
28	Washer	4	-	-	-	26 05 22	26 05 22	AR160D010D	AR160D010D	AR160D012D	AR160D012D
*29	O-Ring	1	-	-	-	-	-	-	-	-	-
35 Series											
1A	Liner	1	35BA05AXXXX	35BA06AXXXX	35BA08AXXXX	35BA10AXXXX	35BA12AXXXX	35BA16AXXXX	35BA20AXXXX	35BA25AXXXX	35BA30AXXXX
9A	Screw	8	TR103D08D55	TR103D10D60	TR103D10D60	TR103D12D75	TR103D14D90	TR103D16D90	TR103D20D120	TR103D24D120	TR103D24D120
22A	Washer	8	AR160D008F	26 08 22	26 08 22	26 12 22	30 12 22	26 16 22	26 25 22	30 25 22	30 30 22
30	Locking ring	2	35 FT 05 A	35 FT 06 A	35 FT 08 A	35 FT 10 A	35 FT 12 A	35 FT 16 A	35 FT 20 A	35 FT 25 A	35 FT 30 A
31	Clamping bracket	2	35 FU 05 A	35 FU 06 A	35 FU 08 A	35 FU 10 A	35 FU 12 A	35 FU 16 A	35 FU 20 A	35 FU 25 A	35 FU 30 A

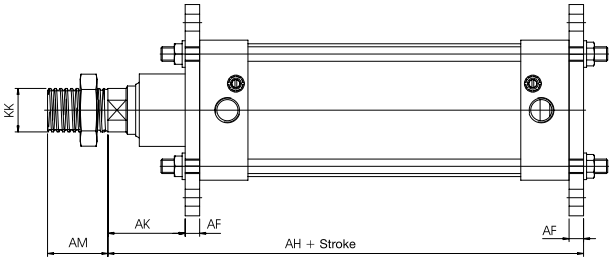
Spare kit	50	63	80	100	125	160	200	250	300
Standard	30KR05	30KR06	30KR08	30KR10	30KR12	30KR16	30KR20	30KR25	30KR30
High temperature (HT)	A 30KR05	A 30KR06	A 30KR08	A 30KR10	A 30KR12	A 30KR16	A 30KR20	A 30KR25	A 30KR30

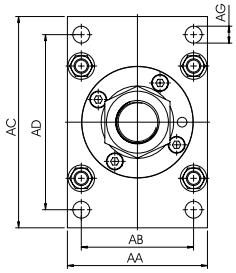
* Spare kit components

30 and 35 Series
Heavy Duty cylinders
Fixing elements

Flange







Ø	AA	AB	AC	AD	AF	AG	AH	AK	AM	KK
50	70	53 ±0,3	105	85 ±0,3	8	10	187 ±1,3	47 ±1,8	35	M.20X2,5
63	80	56 ±0,3	115	95 ±0,3	10	10	197 ±1,5	53 ±1,8	45	M.24X3
80	95	68 ±0,3	135	112 ±0,3	10	12	209 ±1,5	57 ±1,8	45	M.27X3
100	116	93 ±0,3	175	145 ±0,3	12	14	244 ±1,5	64 ±1,8	50	M.36X4
125	145	115 ±0,4	205	170 ±0,4	15	16	256 ±1,5	60 ±1,8	55	M.42X4,5
160	182	130 ±0,4	240	205 ±0,4	18	18	280 ±1,8	75 ±2,2	75	M.52X3
200	225	170 ±0,5	310	265 ±0,5	22	22	338 ±1,8	92 ±2,2	75	M.52X3
250	275	210 ±1	390	330 ±1	28	26	385 ±2	97 ±2,5	100	M.68X4
300	325	245 ±1	440	385 ±1	33	28	390 ±2	92 ±2,5	100	M.68X4

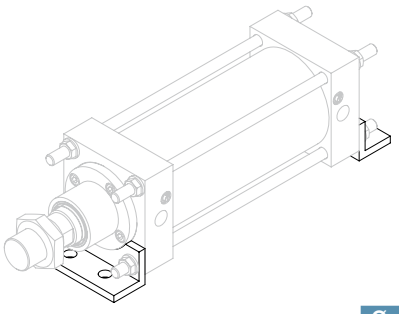
Front flange

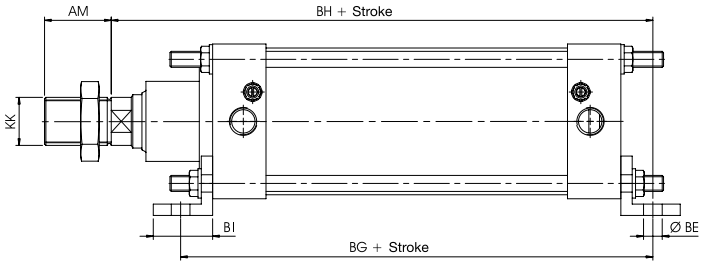
COD.	Ø
B30.AAD.05	50
B30.AAD.06	63
B30.AAD.08	80
B30.AAD.10	100
B30.AAD.12	125
B30.AAD.16	160
B30.AAD.20	200
B30.AAD.25	250
B30.AAD.30	300

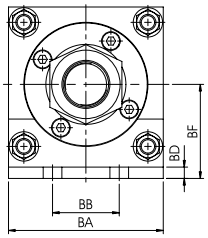
Rear flange

COD.	Ø
B30.AB.05	50
B30.AB.06	63
B30.AB.08	80
B30.AB.10	100
B30.AB.12	125
B30.AB.16	160
B30.AB.20	200
B30.AB.25	250
B30.AB.30	300

Bracket







Ø	BA	BB	BD	BE	BF	BG	BH	BI	AM	KK
50	70	30 ±0,3	5,5	9	42,5 ±0,5	160 ±1	197 ±1	34,5	35	M.20X2,5
63	80	30 ±0,3	5,5	11	50 ±0,5	166 ±1	208 ±1	34,5	45	M.24X3
80	95	30 ±0,3	5,5	11	54,5 ±0,6	166 ±2	216 ±2	34,5	45	M.27X3
100	116	50 ±0,3	8,5	14	70,5 ±0,6	204 ±2	256 ±2	44,5	50	M.36X4
125	145	57 ±0,4	8,5	17	85,5 ±0,6	226 ±2	270 ±2	49,5	55	M.42X4,5
160	182	70 ±0,4	10,5	17	102,5 ±0,6	235 ±2	294 ±2	64	75	M.52X3
200	225	80 ±0,5	10,5	22	125 ±0,6	286 ±2	356 ±2	64	75	M.52X3
250	275	115 ±1	14,5	26	160 ±1	394 ±2	437 ±2	119,5	100	M.68X4
300	325	140 ±1	14,5	28	185 ±1	394 ±2,5	437 ±2,5	119,5	100	M.68X4

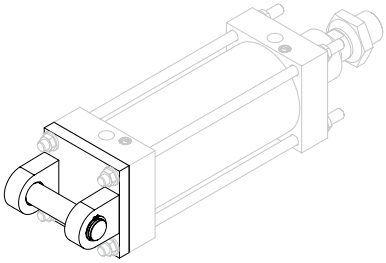
COD.	Ø
B30.AB.05	50
B30.AB.06	63
B30.AB.08	80
B30.AB.10	100
B30.AB.12	125
B30.AB.16	160
B30.AB.20	200
B30.AB.25	250
B30.AB.30	300

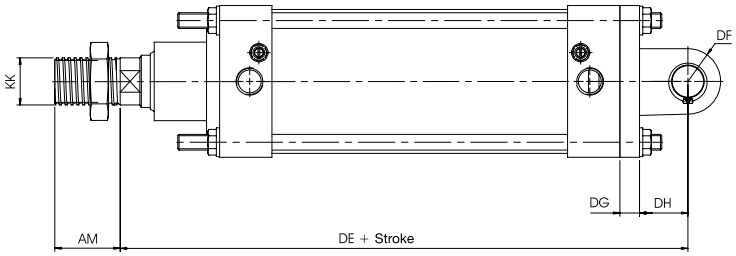
30 and 35 Series

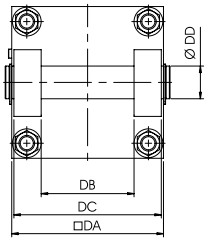
Heavy Duty cylinders

Fixing elements

Female Hinge



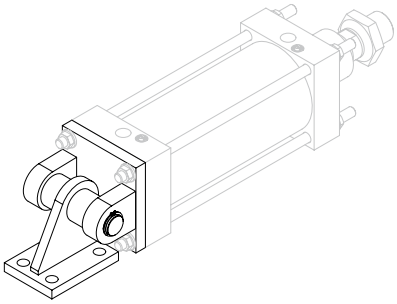


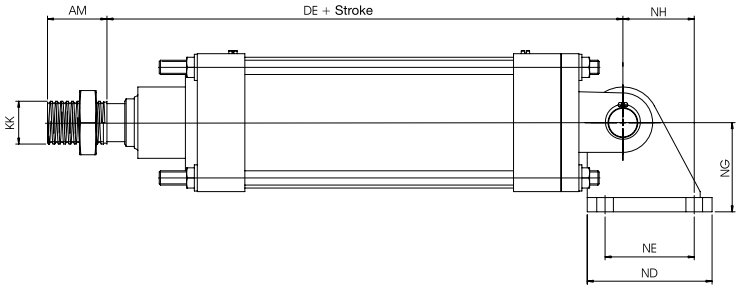


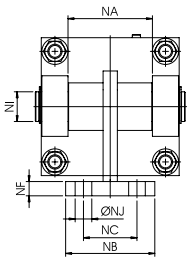
Ø	DA	DB	DC	DD H9	DE	DF	DG	DH	AM	KK
50	70	$35^{+0,6}_{-0}$	$65^{+0,6}_{-0}$	15	$212^{\pm1,3}$	15	8	25	35	M.20X2,5
63	80	$45^{+0,6}_{-0}$	$75^{+0,6}_{-0}$	16	$220^{\pm1,5}$	18	8	25	45	M.24X3
80	95	$45^{+0,6}_{-0}$	$85^{+0,6}_{-0}$	20	$237^{\pm1,5}$	22	10	28	45	M.27X3
100	116	$71^{+0,7}_{-0}$	$115^{+0,7}_{-0}$	25	$284^{\pm1,5}$	25	15	37	50	M.36X4
125	145	$90^{+0,7}_{-0}$	$140^{+0,7}_{-0}$	25	$306^{\pm1,5}$	25	15	50	55	M.42X4,5
160	182	$100^{+0,8}_{-0}$	$160^{+0,8}_{-0}$	30	$334^{\pm1,8}$	35	18	54	75	M.52X3
200	225	$110^{+0,8}_{-0}$	$180^{+0,8}_{-0}$	35	$401^{\pm1,8}$	42	22	63	75	M.52X3
250	275	$110^{+1,2}_{-0}$	$190^{+1,2}_{-0}$	40	$457^{\pm2,5}$	48	28	72	100	M.68X4
300	325	$120^{+1,2}_{-0}$	$210^{+1,2}_{-0}$	50	$467^{\pm2,5}$	56	28	82	100	M.68X4

COD.	Ø
G30.AD.05	50
G30.AD.06	63
G30.AD.08	80
G30.AD.10	100
G30.AD.12	125
G30.AD.16	160
G30.AD.20	200
G30.AD.25	250
G30.AD.30	300

Rear 90° Hinge





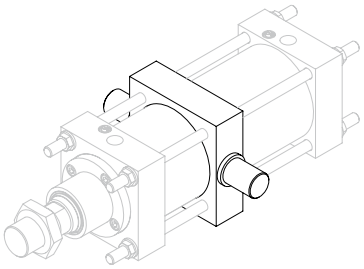


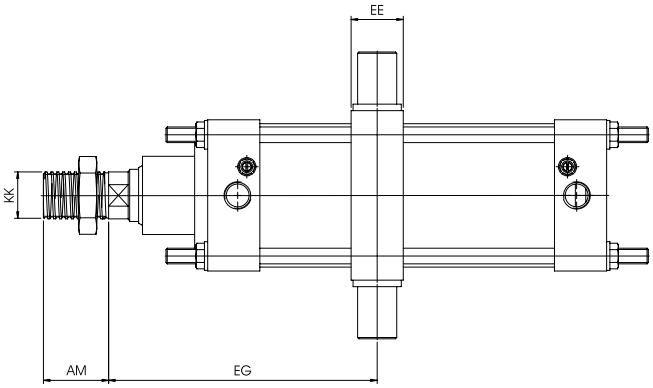
Ø	DE	NA	NB	NC	ND	NE	NF	NG	NH	NI	NJ	AM	KK
50	$212^{\pm1,3}$	34	46	32	60	40	8	40	30	15	9	35	M.20X2,5
63	$220^{\pm1,5}$	43	55	37	70	50	8	50	40	17	11	45	M.24X3
80	$237^{\pm1,5}$	43	55	37	75	55	10	60	43	20	11	45	M.27X3
100	$284^{\pm1,5}$	70	75	45	105	75	12	75	60	25	14	50	M.36X4
125	$306^{\pm1,5}$	70	75	45	105	75	12	75	60	25	14	55	M.42X4,5
160	$334^{\pm1,8}$	98	95	65	115	85	14	100	65	30	17	75	M.52X3
200	$401^{\pm1,8}$	108	110	70	130	90	20	125	68	35	22	75	M.52X3
250	$457^{\pm2,5}$	108	120	76	140	90	20	150	65	40	25	100	M.68X4
300	$467^{\pm2,5}$	118	140	90	160	100	25	180	70	50	28	100	M.68X4

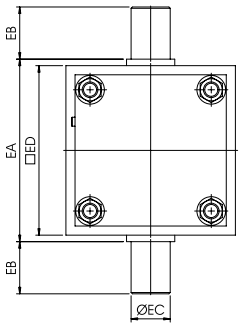
COD.	Ø
B30.AN.05	50
B30.AN.06	63
B30.AN.08	80
B30.AN.10	100
B30.AN.10	125
B30.AN.16	160
B30.AN.20	200
B30.AN.25	250
B30.AN.30	300

30 and 35 Series
Heavy Duty cylinders
Fixing elements

Intermediate Hinge





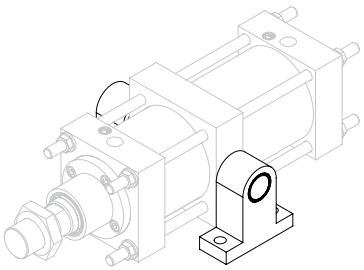


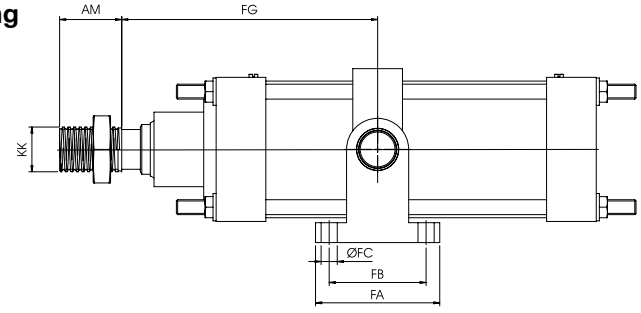
Ø	EA	EB	EC	ED	EE	EG*	AM	KK
50	80 $^{+0}_{-0,4}$	22	18 ^{f8}	72	30		35	M.20X2,5
63	90 $^{+0}_{-0,4}$	30	22 ^{f8}	82	30		45	M.24X3
80	110 $^{+0}_{-0,4}$	35	25 ^{f8}	106	35		45	M.27X3
100	140 $^{+0}_{-0,4}$	40	30 ^{f8}	130	40		50	M.36X4
125	164 $^{+0}_{-0,5}$	50	35 ^{f8}	152	45		55	M.42X4,5
160	194 $^{+0}_{-0,5}$	50	40 ^{f8}	186	55		75	M.52X3
200	250 $^{+0}_{-0,5}$	55	45 ^{f8}	242	55		75	M.52X3
250	325 $^{+0}_{-1,2}$	70	50 ^{f8}	305	65		100	M.68X4
300	375 $^{+0}_{-1,2}$	75	60 ^{f8}	360	75		100	M.68X4

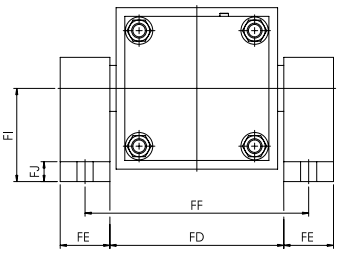
COD.	Ø
B30.AE.05	50
B30.AE.06	63
B30.AE.08	80
B30.AE.10	100
B30.AE.12	125
B30.AE.16	160
B30.AE.20	200
B30.AE.25	250
B30.AE.30	300

* The position of the intermediate hinge, represented by the dimension figure EG, will be given when placing the order.

Intermediate Hinge Bearing







Ø	FA	FB	FC	FD	FE	FF	FG*	FI	FJ	AM	KK
50	65	50	9	80 $^{+0}_{-0,4}$	22	102		40	10	35	M.20X2,5
63	75	58	11	90 $^{+0}_{-0,4}$	30	120		50	10	45	M.24X3
80	85	66	11	110 $^{+0}_{-0,4}$	35	145		60	12	45	M.27X3
100	100	78	13	140 $^{+0}_{-0,4}$	40	180		75	16	50	M.36X4
125	115	90	15	164 $^{+0}_{-0,5}$	50	214		84	18	55	M.42X4,5
160	135	105	17	194 $^{+0}_{-0,5}$	50	244		100	20	75	M.52X3
200	160	120	21	250 $^{+0}_{-0,5}$	55	305		125	25	75	M.52X3
250	175	130	25	325 $^{+0}_{-1,2}$	70	395		150	30	100	M.68X4
300	200	155	28	375 $^{+0}_{-1,2}$	75	450		180	35	100	M.68X4

COD.	Ø
G30.AF.05	50
G30.AF.06	63
G30.AF.08	80
G30.AF.10	100
G30.AF.12	125
G30.AF.16	160
G30.AF.20	200
G30.AF.25	250
G30.AF.30	300

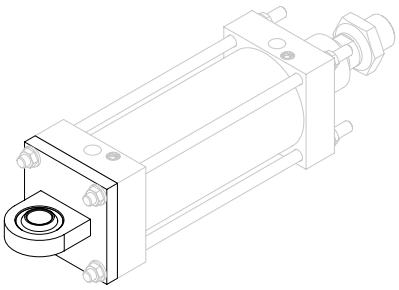
* The position of the bearing, represented by the dimension figure FG, will be given when placing the order.

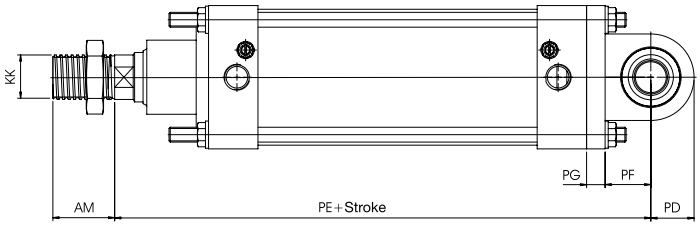
30 and 35 Series

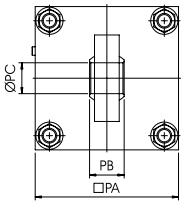
Heavy Duty cylinders

Fixing elements

Rear Hinge with Ball Joint



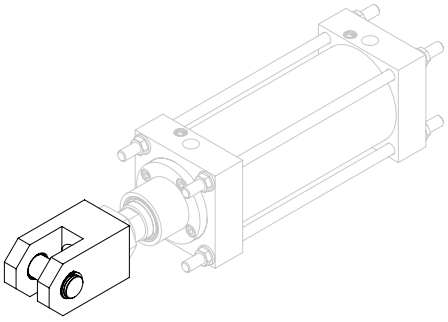


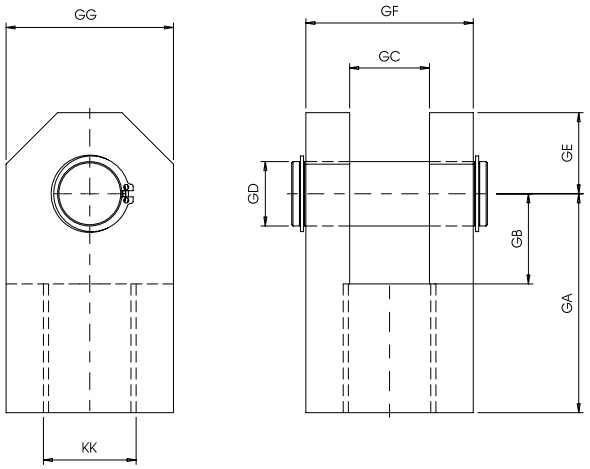


Ø	PA	PB	PC	PD	PE	PF	PG	AM	KK
50	70	16	15	20	212	25	8	35	M.20X2,5
63	80	20	17	24	220	25	8	45	M.24X3
80	95	25	20	28	237	28	10	45	M.27X3
100	116	28	25	35	284	37	15	50	M.36X4
125	145	28	25	35	308	50	15	55	M.42X4,5
160	182	32	30	40	336	54	18	75	M.52X3
200	225	35	35	45	405	63	22	75	M.52X3
250	275	40	40	50	459	72	28	100	M.68X4
300	325	56	50	65	469	82	28	100	M.68X4

COD.	Ø
G30.AP.05	50
G30.AP.06	63
G30.AP.08	80
G30.AP.10	100
G30.AP.12	125
G30.AP.16	160
G30.AP.20	200
G30.AP.25	250
G30.AP.30	300

Yoke with Pivot



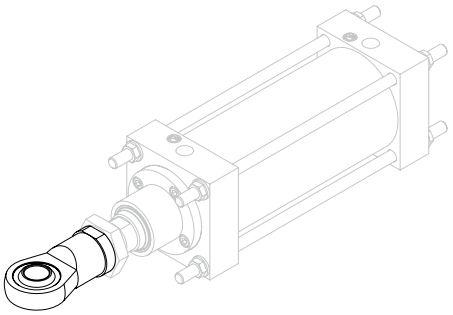


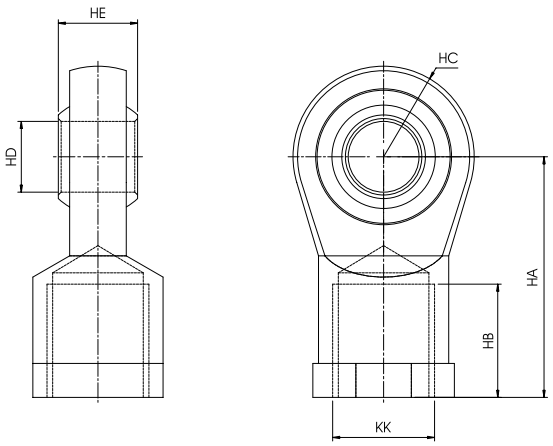
Ø	GA	GB	GC	GD H9	GE	GF	GG	KK
50	55	20	16	15	19	35	35	M.20X2,5
63	67	22	18	16	20	40	40	M.24X3
80	70	25	20	20	25	50	50	M.27X3
100	85	35	31	25	31,5	65	65	M.36X4
125	90	40	33	25	36,5	75	75	M.42X4,5
160	105	45	34	30	39	80	80	M.52X3
200	110	50	34	35	41	80	80	M.52X3
250	135	47	42	40	48	100	100	M.68X4
300	145	57	46	50	53	110	110	M.68X4

COD.	Ø
G30.AG.05	50
G30.AG.06	63
G30.AG.08	80
G30.AG.10	100
G30.AG.12	125
G30.AG.16	160
G30.AG.20	200
G30.AG.25	250
G30.AG.30	300

30 and 35 Series
Heavy Duty cylinders
Fixing elements

Ball Joint





Ø	HA	HB	HC	HD H9	HE	KK
50	55	28	20	15	16	M.20X2,5
63	67	36	24	17	20	M.24X3
80	70	36	28	20	25	M.27X3
100	85	40	32	25	28	M.36X4
125	90	45	35	25	28	M.42X4,5
160	105	56	40	30	32	M.52X3
200	110	56	43	35	35	M.52X3
250	135	72	53	40	40	M.68X4
300	145	72	59	50	56	M.68X4

COD.	Ø
G30.AH.05	50
G30.AH.06	63
G30.AH.08	80
G30.AH.10	100
G30.AH.12	125
G30.AH.16	160
G30.AH.20	200
G30.AH.25	250
G30.AH.30	300

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