

ASHUN FLUID POWER

Cylinder Program MARCH 2014

Heavy Duty Metric Mill Type

AH : ISO 6022 / 25 Mpa (250 bar)

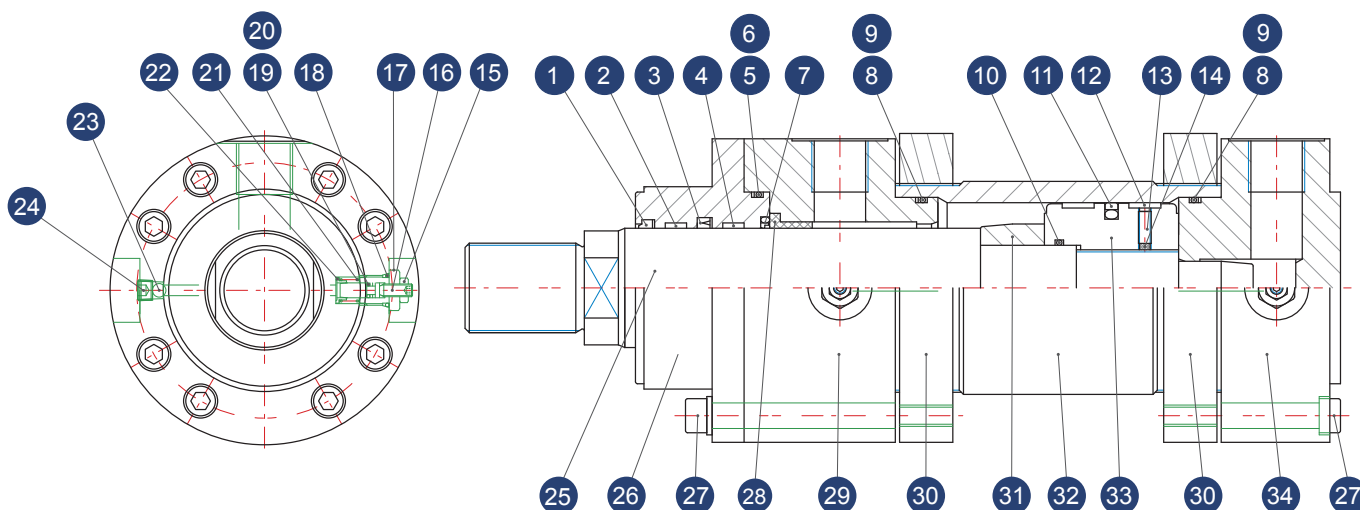
AT : ISO 6020-2 / 16 Mpa (160 bar)



ASHUN FLUID POWER CO., LTD.

■ ISO 6022 25Mpa Standard Hydraulic Cylinders

MF3 / MF4 / MP3 / MP5 / MS2 / MT4



NO	Description
1	Dust Wiper
2	Wearing Ring
3	Rod Seal
4	Wearing Ring
5	O Ring
6	Backup Ring
7	Rod Seal
8	O Ring
9	Backup Ring
10	O Ring
11	Piston Seal
12	Wearing Ring
13	Screw Stop Pin
14	Copper Bushing

NO	Description
15	Nut
16	Cushion Pin
17	Cushion Pin Cap
18	O Ring
19	O Ring
20	Backup Ring
21	Spring
22	Cushion Pin Sleeve
23	Ball Bearing
24	PT Stopper

NO	Description
25	Piston Rod
26	Front Cap
27	Hex Socket Screws
28	Rod Bush
29	Front Cap
30	Flange
31	Cushion Sleeve
32	Cylinder Tube
33	Piston
34	End Cap

HOW TO ORDER

AH-MF3-063-B-A A-040-B-0000

SERIES

MOUNTING TYPES

- Round Flange at Head = **MF3**
- Round Flange at Base = **MF4**
- Plain Clevis at Base = **MP3**
- Self-aligning Clevis at Base = **MP5**
- Foot Mounting = **MS2**
- Trunnion = **MT4**

BORE

Piston Ø 40 to 320mm

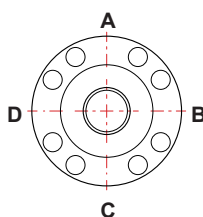
SEAL

- Standard = **B**
- Viton = **C**

POSITION OF OIL INLET

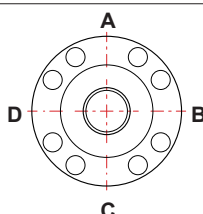
Location at Head

- = **A**
- = **B**
- = **C**
- = **D**



Location at Base

- = **A**
- = **B**
- = **C**
- = **D**



ROD

Piston Rod (MM) Ø25 to 220mm

CUSHION DEVICE

- Front and Rear = **B**
- Front only = **X**
- Rear only = **Y**
- None = **N**

STROKE

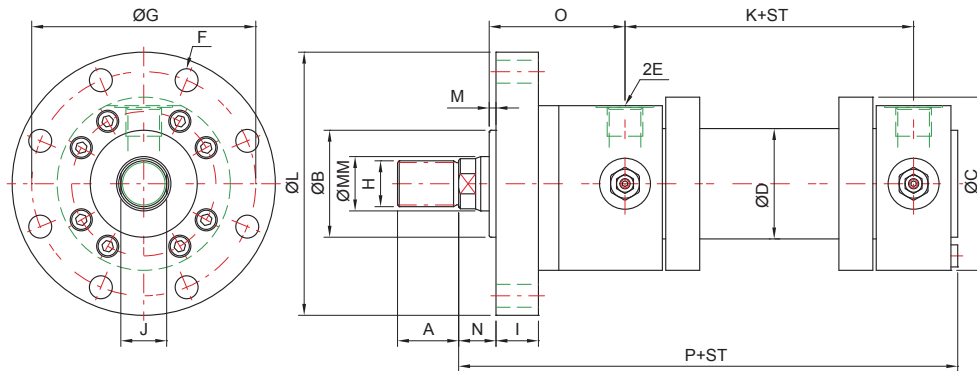
0200

SPACERS

- 0mm** 0~1000
- 50mm** 1001~1500
- 100mm** 1501~2000
- 150mm** 2001~2500
- 200mm** 2501~3000

STANDARD CYLINDERS

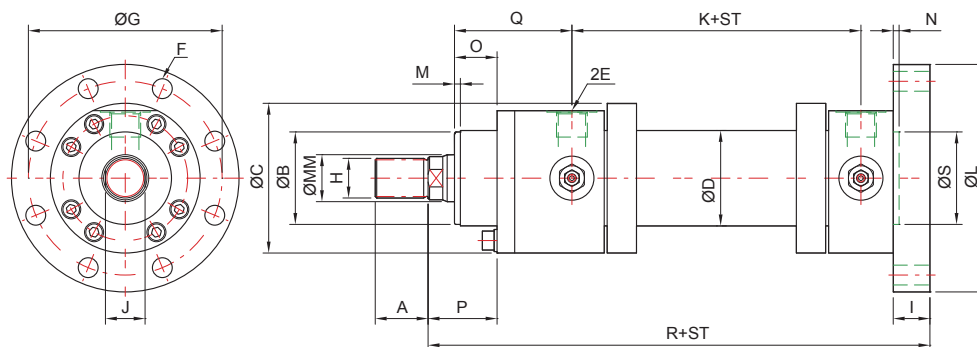
AH-MF3



DIMENSION

BORE	MM	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
Ø40	25 / 28	28	52	88	55	1/2"G	8xØ11	115	M20xP1.5	25	19 / 22	120	138	4	22	83	230
Ø50	32 / 36	36	63	102	65	1/2"G	8xØ13.5	132	M27xP2	25	27 / 30	120	155	4	22	98	244
Ø63	40 / 45	45	75	120	76	3/4"G	8xØ13.5	150	M33xP2	28	32 / 36	133	175	4	25	112	274
Ø80	50 / 56	56	90	145	100	3/4"G	8xØ17.5	180	M42xP2	32	41 / 46	155	210	4	28	120	305
Ø100	63 / 70	63	110	170	120	1"G	8xØ22	212	M48xP2	36	50 / 60	171	250	5	32	134	340
Ø125	80 / 90	85	132	206	150	1"G	8xØ22	250	M64xP3	40	65 / 75	205	290	5	36	153	396
Ø140	90 / 100	90	145	226	170	1 1/4"G	8xØ26	280	M72xP3	40	75 / 85	219	325	5	36	166	431
Ø160	100 / 110	95	160	265	190	1 1/4"G	8xØ26	315	M80xP3	45	85 / 95	235	360	5	40	185	467
Ø180	110 / 125	105	185	292	216	1 1/4"G	8xØ33	350	M90xP3	50	95 / 110	264	405	5	45	194	510
Ø200	125 / 140	112	200	306	245	1 1/4"G	8xØ33	385	M100xP3	56	110 / 120	278	440	5	45	220	550
Ø220	140 / 160	125	235	355	270	1 1/2"G	8xØ39	435	M125xP4	63	120 / 140	325	500	8	50	244	637
Ø250	160 / 180	125	250	412	299	1 1/2"G	8xØ39	475	M125xP4	63	140 / 160	325	540	8	50	260	652
Ø320	200 / 220	160	320	500	385	2"G	8xØ45	600	M160xP4	80	180 / 200	350	675	8	56	310	764

AH-MF4



DIMENSION

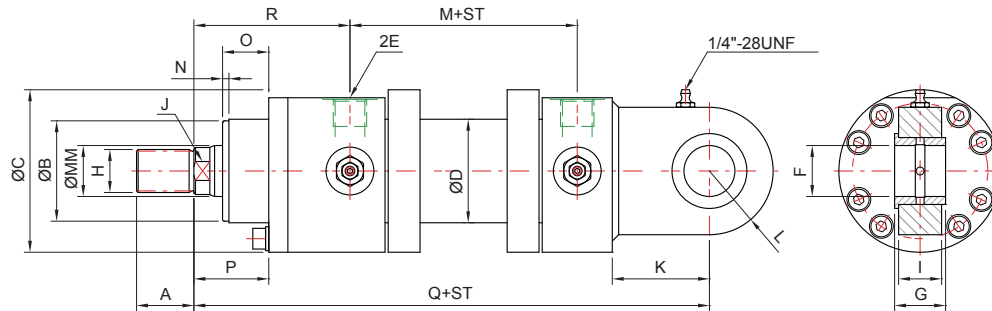
BORE	MM	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
Ø40	25 / 28	28	52	88	55	1/2"G	8xØ11	115	M20xP1.5	25	19 / 22	120	138	4	5	29	47	83	250	52
Ø50	32 / 36	36	63	102	65	1/2"G	8xØ13.5	132	M27xP2	25	27 / 30	120	155	4	4	29	47	98	265	63
Ø63	40 / 45	45	75	120	76	3/4"G	8xØ13.5	150	M33xP2	28	32 / 36	133	175	4	4	32	53	112	298	75
Ø80	50 / 56	56	90	145	100	3/4"G	8xØ17.5	180	M42xP2	32	41 / 46	155	210	4	5	36	60	120	332	90
Ø100	63 / 70	63	110	170	120	1"G	8xØ22	212	M48xP2	36	50 / 60	171	250	5	5	41	68	134	371	110
Ø125	80 / 90	85	132	206	150	1"G	8xØ22	250	M64xP3	40	65 / 75	205	290	5	6	45	76	153	430	132
Ø140	90 / 100	90	145	226	170	1 1/4"G	8xØ26	280	M72xP3	40	75 / 85	219	325	5	6	45	76	166	465	145
Ø160	100 / 110	95	160	265	190	1 1/4"G	8xØ26	315	M80xP3	45	85 / 95	235	360	5	7	50	85	185	505	160
Ø180	110 / 125	105	185	292	216	1 1/4"G	8xØ33	350	M90xP3	50	95 / 110	264	405	5	10	55	95	194	550	185
Ø200	125 / 140	112	200	306	245	1 1/4"G	8xØ33	385	M100xP3	56	110 / 120	278	440	5	10	61	101	220	596	200
Ø220	140 / 160	125	235	355	270	1 1/2"G	8xØ39	435	M125xP4	63	120 / 140	325	500	8	10	71	113	244	688	235
Ø250	160 / 180	125	250	412	299	1 1/2"G	8xØ39	475	M125xP4	63	140 / 160	325	540	8	12	71	113	260	703	250
Ø320	200 / 220	160	320	500	385	2"G	8xØ45	600	M160xP4	80	180 / 200	350	675	8	14	88	136	310	830	320

STANDARD CYLINDERS

ISO 6022

25Mpa Standard Hydraulic Cylinders

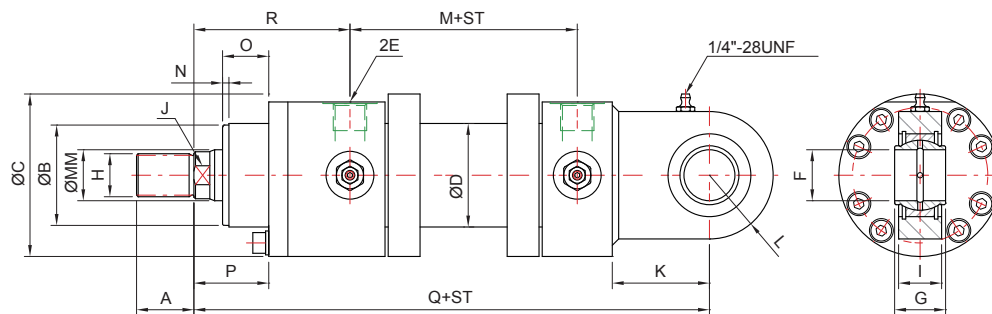
AH-MP3



DIMENSION

BORE	MM	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
Ø40	25 / 28	28	52	88	55	1/2"G	Ø25	25	M20xP1.5	22	19 / 22	53	R32	120	4	29	47	282	83
Ø50	32 / 36	36	63	102	65	1/2"G	Ø32	32	M27xP2	27	27 / 30	61	R40	120	4	29	47	305	98
Ø63	40 / 45	45	75	120	76	3/4"G	Ø40	40	M33xP2	32	32 / 36	74	R50	133	4	32	53	348	112
Ø80	50 / 56	56	90	145	100	3/4"G	Ø50	50	M42xP2	40	41 / 46	90	R63	155	4	36	60	395	120
Ø100	63 / 70	63	110	170	120	1"G	Ø63	63	M48xP2	52	50 / 60	102	R71	171	5	41	68	442	134
Ø125	80 / 90	85	132	206	150	1"G	Ø80	80	M64xP3	66	65 / 75	124	R90	205	5	45	76	520	153
Ø140	90 / 100	90	145	226	170	1 1/4"G	Ø90	90	M72xP3	72	75 / 85	149	R101	219	5	45	76	580	166
Ø160	100 / 110	95	160	265	190	1 1/4"G	Ø100	100	M80xP3	84	85 / 95	150	R112	235	5	50	85	617	185
Ø180	110 / 125	105	185	292	216	1 1/4"G	Ø110	110	M90xP3	88	95 / 110	180	R129	264	5	55	95	690	194
Ø200	125 / 140	112	200	306	245	1 1/4"G	Ø125	125	M100xP3	102	110 / 120	206	R145	278	5	61	101	756	220
Ø220	140 / 160	125	235	412	270	1 1/2"G	Ø160	160	M125xP4	130	120 / 140	251	R200	325	8	71	113	876	244
Ø250	160 / 180	125	250	412	299	1 1/2"G	Ø160	160	M125xP4	130	140 / 160	251	R200	325	8	71	113	903	260
Ø320	200 / 220	160	320	500	385	2"G	Ø200	200	M160xP4	162	180 / 200	316	R250	350	8	88	136	1080	310

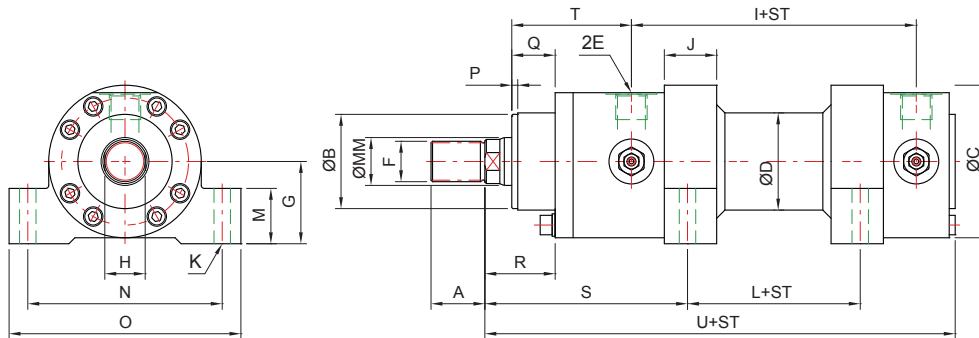
AH-MP5



DIMENSION

BORE	MM	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
Ø40	25 / 28	28	52	88	55	1/2"G	Ø25	25	M20xP1.5	22	19 / 22	53	R32	120	4	29	47	282	83
Ø50	32 / 36	36	63	102	65	1/2"G	Ø32	32	M27xP2	27	27 / 30	61	R40	120	4	29	47	305	98
Ø63	40 / 45	45	75	120	76	3/4"G	Ø40	40	M33xP2	32	32 / 36	74	R50	133	4	32	53	348	112
Ø80	50 / 56	56	90	145	100	3/4"G	Ø50	50	M42xP2	40	41 / 46	90	R63	155	4	36	60	395	120
Ø100	63 / 70	63	110	170	120	1"G	Ø63	63	M48xP2	52	50 / 60	102	R71	171	5	41	68	442	134
Ø125	80 / 90	85	132	206	150	1"G	Ø80	80	M64xP3	66	65 / 75	124	R90	205	5	45	76	520	153
Ø140	90 / 100	90	145	226	170	1 1/4"G	Ø90	90	M72xP3	72	75 / 85	149	R101	219	5	45	76	580	166
Ø160	100 / 110	95	160	265	190	1 1/4"G	Ø100	100	M80xP3	84	85 / 95	150	R112	235	5	50	85	617	185
Ø180	110 / 125	105	185	292	216	1 1/4"G	Ø110	110	M90xP3	88	95 / 110	180	R129	264	5	55	95	690	194
Ø200	125 / 140	112	200	306	245	1 1/4"G	Ø125	125	M100xP3	102	110 / 120	206	R145	278	5	61	101	756	220
Ø220	140 / 160	125	235	412	270	1 1/2"G	Ø160	160	M125xP4	130	120 / 140	251	R200	325	8	71	113	876	244
Ø250	160 / 180	125	250	412	299	1 1/2"G	Ø160	160	M125xP4	130	140 / 160	251	R200	325	8	71	113	903	260
Ø320	200 / 220	160	320	500	385	2"G	Ø200	200	M160xP4	162	180 / 200	316	R250	350	8	88	136	1080	310

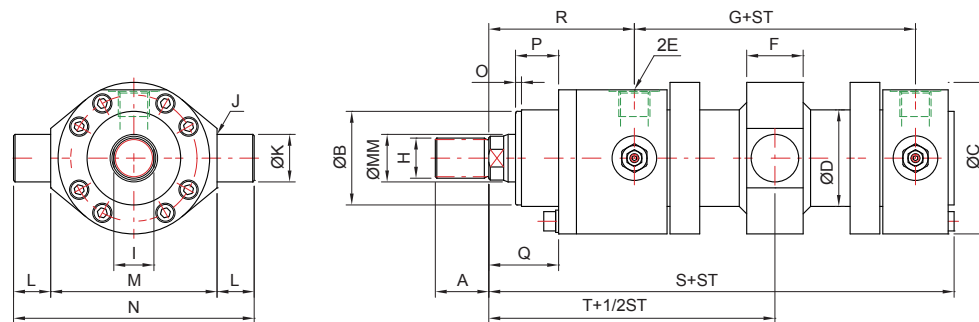
AH-MS2



DIMENSION

BORE	MM	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
Ø40	25 / 28	28	52	88	55	1/2"G	M20xP1.5	45	19 / 22	120	30	Ø11	50	32	110	140	4	29	47	118	83	230
Ø50	32 / 36	36	63	102	65	1/2"G	M27xP2	55	27 / 30	120	35	Ø11	45	37	130	155	4	29	47	135.5	98	244
Ø63	40 / 45	45	75	120	76	3/4"G	M33xP2	65	32 / 36	133	40	Ø13.5	49	42	150	180	4	32	53	154	112	274
Ø80	50 / 56	56	90	145	100	3/4"G	M42xP2	75	41 / 46	155	50	Ø17.5	52	47	180	220	4	36	60	171.5	120	305
Ø100	63 / 70	63	110	170	120	1"G	M48xP2	90	50 / 60	171	60	Ø22	61	57	210	255	5	41	68	189	134	340
Ø125	80 / 90	85	132	206	150	1"G	M64xP3	105	65 / 75	205	70	Ø26	75	67	255	305	5	45	76	218	153	396
Ø140	90 / 100	90	145	226	170	1 1/4"G	M72xP3	115	75 / 85	219	85	Ø30	70	72	290	350	5	45	76	240.5	166	431
Ø160	100 / 110	95	160	265	190	1 1/4"G	M80xP3	135	85 / 95	235	105	Ø33	65	77	330	400	5	50	85	270	185	467
Ø180	110 / 125	105	185	292	216	1 1/4"G	M90xP3	150	95 / 110	264	115	Ø40	69	92	360	440	5	55	95	291.5	194	510
Ø200	125 / 140	112	200	306	245	1 1/4"G	M100xP3	160	110 / 120	278	125	Ø40	73	97	385	465	5	61	101	322.5	220	550
Ø220	140 / 160	125	235	355	270	1 1/2"G	M125xP4	185	120 / 140	325	100	Ø45	75	102	445	541	8	71	113	362.5	244	637
Ø250	160 / 180	125	250	412	299	1 1/2"G	M125xP4	215	140 / 160	325	100	Ø52	100	112	520	620	8	71	113	362.5	260	652
Ø320	200 / 220	160	320	500	385	2"G	M160xP4	260	180 / 200	350	120	Ø62	120	152	620	740	8	88	136	425	310	764

AH-MT4



DIMENSION

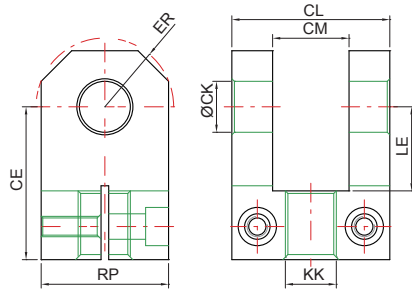
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Ø40	25 / 28	28	52	88	55	1/2"G	38	120	M20xP1.5	19 / 22	1	25	20	95	135	4	29	47	83	230	143
Ø50	32 / 36	36	63	102	65	1/2"G	38	120	M27xP2	27 / 30	2	32	25	112	162	4	29	47	98	244	158
Ø63	40 / 45	45	75	120	76	3/4"G	48	133	M33xP2	32 / 36	2.5	40	32	125	189	4	32	53	112	274	178.5
Ø80	50 / 56	56	90	145	100	3/4"G	58	155	M42xP2	41 / 46	2.5	50	40	150	230	4	36	60	120	305	197.5
Ø100	63 / 70	63	110	170	120	1"G	78	171	M48xP2	50 / 60	3	63	50	180	280	5	41	68	134	340	219.5
Ø125	80 / 90	85	132	206	150	1"G	98	205	M64xP3	65 / 75	3	80	63	224	350	5	45	76	153	396	255.5
Ø140	90 / 100	90	145	226	170	1 1/4"G	118	219	M72xP3	75 / 85	3	90	70	265	405	5	45	76	166	431	275.5
Ø160	100 / 110	95	160	265	190	1 1/4"G	128	235	M80xP3	85 / 95	3.5	100	80	280	440	5	50	85	185	467	303
Ø180	110 / 125	105	185	292	216	1 1/4"G	138	264	M90xP3	95 / 110	3.5	110	90	320	500	5	55	95	194	510	326
Ø200	125 / 140	112	200	306	245	1 1/4"G	178	278	M100xP3	110 / 120	3.5	125	100	335	535	5	61	101	220	550	359
Ø220	140 / 160	125	235	412	270	1 1/2"G	180	325	M125xP4	120 / 140	3.5	160	125	385	635	8	71	113	244	637	407.5
Ø250	160 / 180	125	250	412	299	1 1/2"G	180	325	M125xP4	140 / 160	3.5	160	125	425	675	8	71	113	260	652	428
Ø320	200 / 220	160	320	500	385	2"G	220	350	M160xP4	180 / 200	4	200	160	530	850	8	88	136	310	764	485

STANDARD CYLINDERS

ISO 6022

25Mpa Standard Hydraulic Cylinders

6022 AH



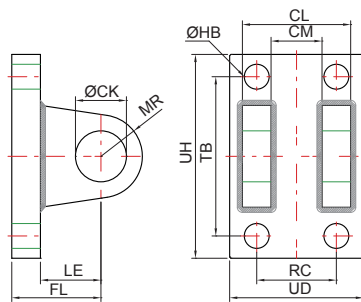
H-1

DIMENSION

REFERENCE	KK	CE	CK	CL	CM	ER	LE	RP
H-1-25	M20x1.5	65	25	56	25	32	34	50
H-1-32	M27x2	80	32	70	32	40	41	65
H-1-40	M33x2	97	40	90	40	50	51	80
H-1-50	M42x2	120	50	110	50	63	63	100
H-1-63	M48x2	140	63	140	63	71	75	140
H-1-70	M56x2	160	70	150	70	80	84	140
H-1-80	M64x3	180	80	170	80	90	94	180
H-1-90	M72x3	195	90	190	90	100	109	200
H-1-100	M80x3	210	100	210	100	110	114	220

H-2

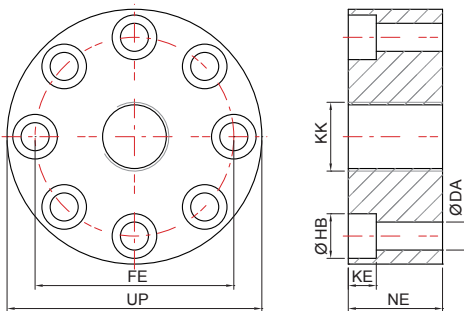
DIMENSION



REFERENCE	CK	CL	CM	FL	HB	LE	MR	RC	TB	UD	UH
H-2-25	25	56	25	55	13.5	37	25	40	85	70	113
H-2-32	32	70	32	65	17.5	43	32	50	110	85	143
H-2-40	40	90	40	76	22	52	40	65	130	108	170
H-2-50	50	110	50	95	26	65	50	80	170	130	220
H-2-63	63	140	63	112	33	75	63	100	210	160	270
H-2-70	70	150	70	130	33	90	70	110	230	175	300
H-2-80	80	170	80	140	39	95	80	125	250	210	320
H-2-90	90	190	90	160	45	108	90	140	290	230	370
H-2-100	100	210	100	180	45	120	100	160	315	260	400
H-2-110	110	240	110	200	52	138	110	180	350	290	445
H-2-125	125	270	125	230	52	170	125	200	385	320	470

H-3

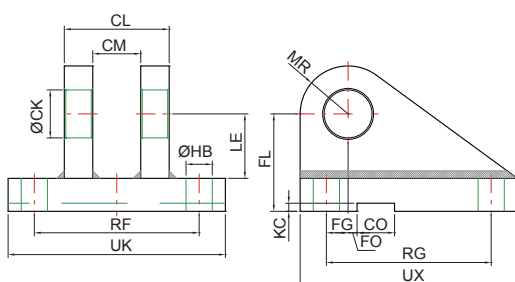
DIMENSION



REFERENCE	KK	DA	FE	HB	KE	NE	UP
H-3-32	M27x2	17.5	78	6xØ11	11	37	100
H-3-40	M33x2	20	95	8xØ13.5	13	46	120
H-3-50	M42x2	26	120	8xØ17.5	17.5	57	150
H-3-63	M48x2	33	150	8xØ22	21.5	64	190
H-3-70	M56x2	36	165	8xØ24	23.5	77	212
H-3-80	M64x3	39	180	8xØ26	25.5	86	230
H-3-90	M72x3	43	195	8xØ29	28.5	89	250
H-3-100	M80x3	43	210	8xØ29	28.5	96	270

H-4

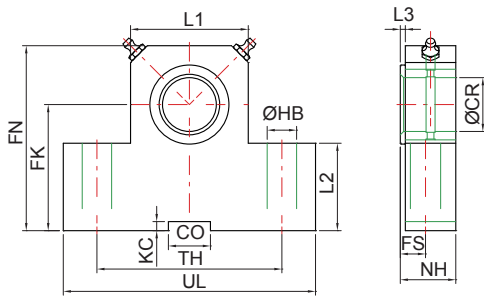
DIMENSION



REFERENCE	CK	CL	CM	CO	FG	FL	FO	HB	KC	LE	MR	RF	RG	UK	UX
H-4-25	25	56	25	25	10	55	10	13.5	5.4	37	25	90	85	120	115
H-4-32	32	70	32	25	14.5	65	6	17.5	5.4	43	32	110	110	145	145
H-4-40	40	90	40	36	17.5	76	6	22	8.4	52	40	140	125	185	170
H-4-50	50	110	50	36	25	95	-	26	8.4	65	50	165	150	215	200
H-4-63	63	140	63	50	33	112	-	33	11.4	75	63	210	170	270	230
H-4-70	70	150	70	50	40	130	-	33	11.4	90	70	230	190	290	250
H-4-80	80	170	80	50	45	140	-	39	11.4	95	80	250	210	320	280
H-4-90	90	190	90	63	47.5	160	-	45	12.4	108	90	280	235	360	320
H-4-100	100	210	100	63	52.5	180	-	52	12.4	120	100	315	250	405	345
H-4-110	110	240	110	80	62.5	200	-	52	15.4	138	110	335	305	425	400
H-4-125	125	270	125	80	75	230	-	52	15.4	170	125	365	350	455	450

H-5

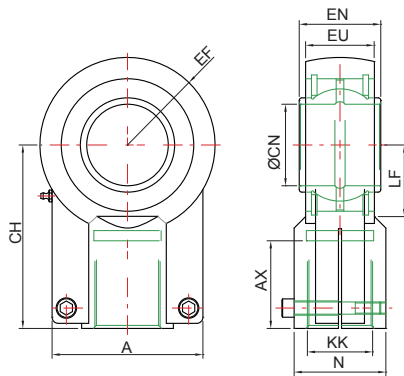
DIMENSION



REFERENCE	CR	CO	FK	FN	FS	HB	KC	L1	L2	L3	NH	TH	UL
H-5-25	25	25	55	80	12	13.5	5.4	56	45	1.5	26	80	110
H-5-32	32	25	65	100	15	17.5	5.4	70	52	2	33	110	150
H-5-40	40	36	76	120	16	22	8.4	88	60	2.5	41	125	170
H-5-50	50	36	95	140	20	26	8.4	100	75	2.5	51	160	210
H-5-63	63	50	112	180	25	33	11.4	130	85	3	61	200	265
H-5-80	80	50	140	220	31	39	11.4	170	112	3	81	250	325

H-6

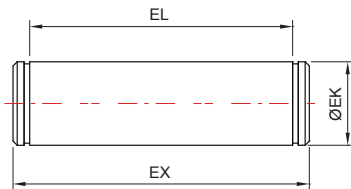
DIMENSION



REFERENCE	KK	A	AX	CH	CN	EF	EN	EU	LF	N
H-6-25	M20x1.5	54	29	65	25	32	25	22	26	31
H-6-32	M27x2	66	37	80	32	38	32	27	32	38
H-6-40	M33x2	80	46	97	40	48.5	40	32	41	47
H-6-50	M42x2	96	57	120	50	59	50	40	50	58
H-6-63	M48x2	114	64	140	63	71	63	52	62	70
H-6-80	M64x3	148	86	180	80	90	80	66	78	90
H-6-90	M72x3	160	91	195	90	101	90	72	85	100
H-6-100	M80x3	178	96	210	100	112	100	84	98	110
H-6-110	M90x3	190	106	235	110	129	110	88	105	125
H-6-125	M100x3	200	113	260	125	145	125	102	120	135
H-6-160	M125x4	250	126	310	160	178	160	130	150	165
H-6-200	M160x4	320	161	390	200	230	200	162	195	215

H-7

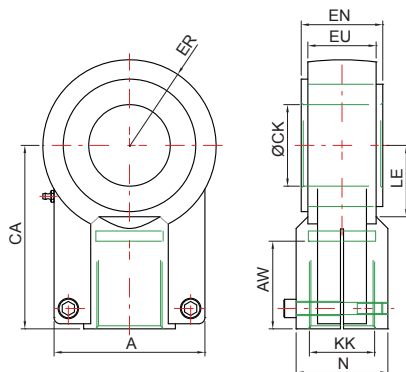
DIMENSION



REFERENCE	EK	EL	EX
H-7-25	25	58	66
H-7-32	32	72	80
H-7-40	40	92	105
H-7-50	50	112	130
H-7-63	63	142	160
H-7-70	70	152	170
H-7-80	80	172	190

H-8

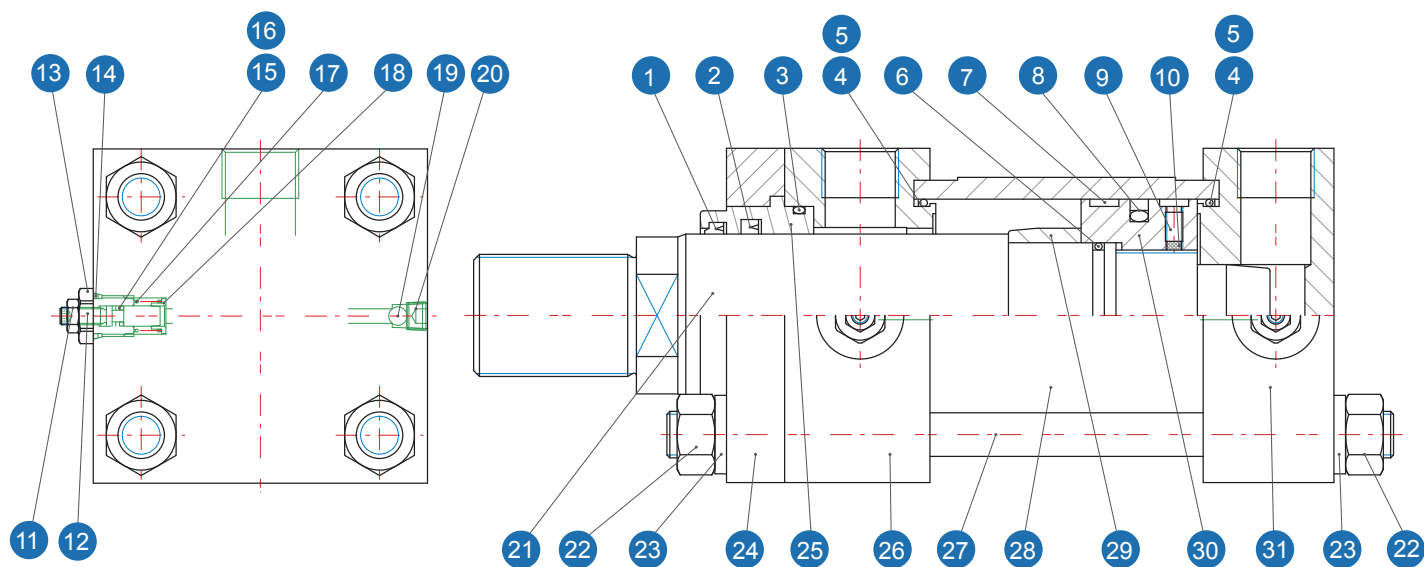
DIMENSION



REFERENCE	KK	A	AW	CA	CK	EM	ER	EU	LE	N
H-8-32	M27x2	66	37	80	32	32	38	27	32	38
H-8-40	M33x2	80	46	97	40	40	48.5	32	41	47
H-8-50	M42x2	96	57	120	50	50	59	40	50	58
H-8-63	M48x2	114	64	140	63	63	71	52	62	70
H-8-80	M64x3	148	86	180	80	80	90	66	78	90
H-8-90	M72x3	160	91	195	90	90	101	72	85	100
H-8-100	M80x3	178	96	210	100	100	112	84	98	110
H-8-110	M90x3	190	106	235	110	110	129	88	105	125
H-8-125	M100x3	200	113	260	125	125	145	102	120	135
H-8-160	M125x4	250	126	310	160	160	178	130	150	165
H-8-200	M160x4	320	161	390	200	200	230	162	195	215

■ ISO 6020-2 16Mpa Standard Hydraulic Cylinders

ME5 / ME6 / MP1 / MP3 / MP5 / MS2 / MT1 / MT2 / MT4



NO	Description
1	Dust Wiper
2	Rod Seal
3	O Ring
4	O Ring
5	Backup Ring
6	O Ring
7	Wearing Ring
8	Piston Seal
9	Screw Stop Pin
10	Copper Bushing

NO	Description
11	Nut
12	Cushion Pin
13	Cushion Pin Cap
14	O Ring
15	O Ring
16	Backup Ring
17	Spring
18	Cushion Pin Sleeve
19	Ball Bearing
20	PT Stopper

NO	Description
21	Piston Rod
22	Nut
23	Washer
24	End Plate
25	Rod Bush
26	Front Cap
27	Tie Bolt
28	Cylinder Tube
29	Cushion Sleeve
30	Piston
31	End Cap

HOW TO ORDER

AT - ME5 - 063 - B - A A - 040 - B - 0000

SERIES

MOUNTING TYPES

- Rectangular Flange at Head = **ME5**
- Rectangular Flange at Base = **ME6**
- Clevis Mounting = **MP1**
- Plain Clevis at Base = **MP3**
- Self-aligning Clevis at Base = **MP5**
- Foot Mounting = **MS2**
- Trunnion at Head = **MT1**
- Trunnion at Base = **MT2**
- Trunnion = **MT4**

BORE

Piston Ø 25 to 200mm

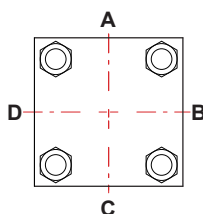
SEAL

- Standard = **B**
- Viton = **C**

POSITION OF OIL INLET

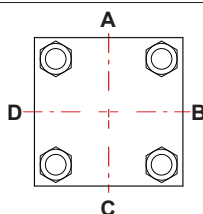
Location at Head

- = **A**
- = **B**
- = **C**
- = **D**



Location at Base

- = **A**
- = **B**
- = **C**
- = **D**



ROD

Piston Rod (MM) Ø12 to 140mm

CUSHION DEVICE

- Front and Rear = **B**
- Front only = **X**
- Rear only = **Y**
- None = **N**

STROKE

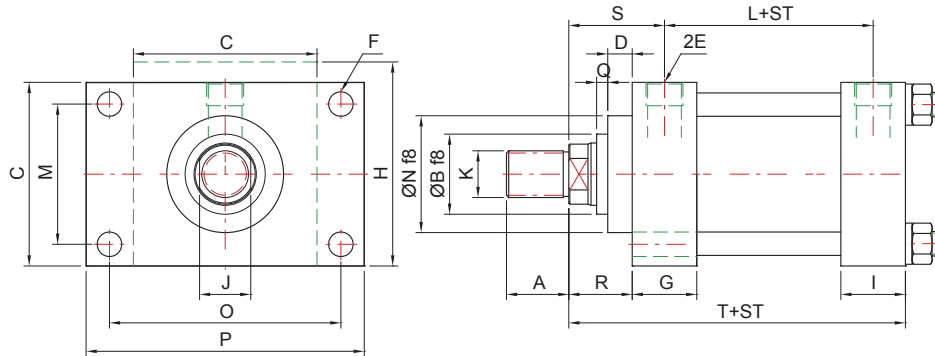
0200

SPACERS

- 0mm** 0~1000
- 50mm** 1001~1500
- 100mm** 1501~2000
- 150mm** 2001~2500
- 200mm** 2501~3000

STANDARD CYLINDERS

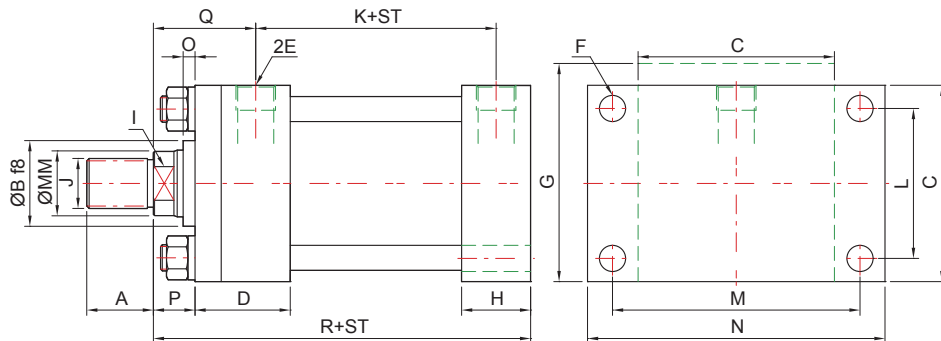
AT-ME5



DIMENSION

BORE	MM	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T
Ø25	12 / 18	14 / 18	24 / 30	40	10	1/4"G	4xØ5.5	25	45	25	10 / 15	M10xP1.25 / M14xP1.5	53	27	38	51	65	6	25	50	114
Ø32	14 / 22	16 / 22	26 / 34	45	10	1/4"G	4xØ6.5	25	50	25	12 / 18	M12xP1.25 / M16xP1.5	56	33	42	58	70	12	35	60	128
Ø40	18 / 28	18 / 28	30 / 42	63	10	3/8"G	4xØ11	38	-	38	15 / 22	M14xP1.5 / M20xP1.5	73	41	62	87	110	12	35	62	153
Ø50	22 / 36	22 / 36	34 / 50	75	16	1/2"G	4xØ14	38	-	38	18 / 30	M16xP1.5 / M27xP2.0	74	52	74	105	130	9	41	67	159
Ø63	28 / 45	28 / 45	42 / 60	90	16	1/2"G	4xØ14	38	-	38	22 / 36	M20xP1.5 / M33xP2.0	80	65	75 / 88	117	145	13	48	71	168
Ø80	36 / 56	36 / 56	50 / 72	115	20	3/4"G	4xØ18	45	-	45	30 / 46	M27xP2.0 / M42xP2.0	98	83	82 / 105	149	180	9	51	77	190
Ø100	45 / 70	45 / 63	60 / 88	130	22	3/4"G	4xØ18	45	-	45	36 / 60	M33xP2.0 / M48xP2.0	101	97	92 / 125	162	200	10	57	82	203
Ø125	56 / 90	56 / 85	72 / 108	165	22	1"G	4xØ22	58	-	58	46 / 2xØ10	M42xP2.0 / M64xP3.0	117	126	105 / 150	208	250	10	57	86	232
Ø160	70 / 110	63 / 95	88 / 133	205	25	1"G	4xØ26	58	-	58	60 / 2xØ10	M48xP2.0 / M80xP3.0	130	155	125 / 170	253	300	7	57	86	245
Ø200	90 / 140	85 / 112	108 / 163	245	25	1 1/4"G	4xØ33	76	-	76	2xØ10	M64xP3.0 / M100xP3.0	165	190	150 / 210	300	360	7	57	98	299

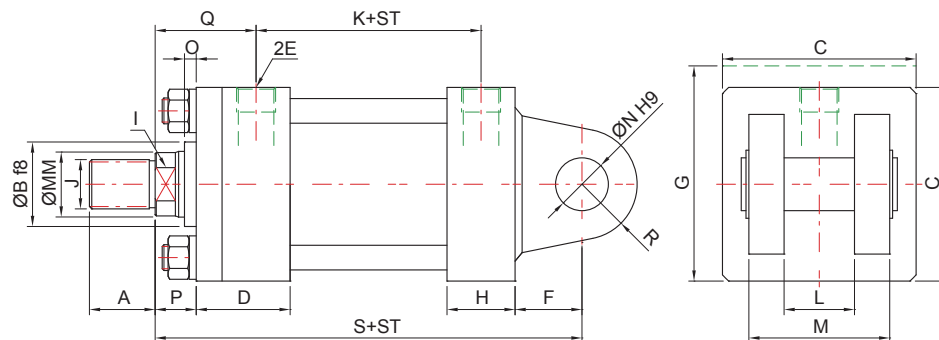
AT-ME6



DIMENSION

BORE	MM	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
Ø25	12 / 18	14 / 18	24 / 30	40	50	1/4"G	4xØ5.5	45	25	10 / 15	M10xP1.25 / M14xP1.5	53	27	51	65	6	15	50	114
Ø32	14 / 22	16 / 22	26 / 34	45	50	1/4"G	4xØ6.5	50	25	12 / 18	M12xP1.25 / M16xP1.5	56	33	58	70	12	25	60	128
Ø40	18 / 28	18 / 28	30 / 42	63	55	3/8"G	4xØ11	-	38	15 / 22	M14xP1.5 / M20xP1.5	73	41	87	110	12	25	62	153
Ø50	22 / 36	22 / 36	34 / 50	75	61	1/2"G	4xØ14	-	38	18 / 30	M16xP1.5 / M27xP2	74	52	105	130	9	25	67	159
Ø63	28 / 45	28 / 45	42 / 60	90	61	1/2"G	4xØ14	-	38	22 / 36	M20xP1.5 / M33xP2	80	65	117	145	13	32	71	168
Ø80	36 / 56	36 / 56	50 / 72	115	70	3/4"G	4xØ18	-	45	30 / 46	M27xP2 / M42xP2	98	83	149	180	9	31	77	190
Ø100	45 / 70	45 / 63	60 / 88	130	72	3/4"G	4xØ18	-	45	36 / 60	M33xP2 / M48xP2	101	97	162	200	10	35	82	203
Ø125	56 / 90	56 / 85	72 / 108	165	80	1"G	4xØ22	-	58	46 / 2xØ10	M42xP2 / M64xP3	117	126	208	250	10	35	86	232
Ø160	70 / 110	63 / 95	88 / 133	205	83	1"G	4xØ26	-	58	60 / 2xØ10	M48xP2 / M80xP3	130	155	253	300	7	32	86	245
Ø200	90 / 140	85 / 112	108 / 163	245	101	1 1/4"G	4xØ33	-	76	2xØ10	M64xP3 / M100xP3	165	190	300	360	7	32	98	299

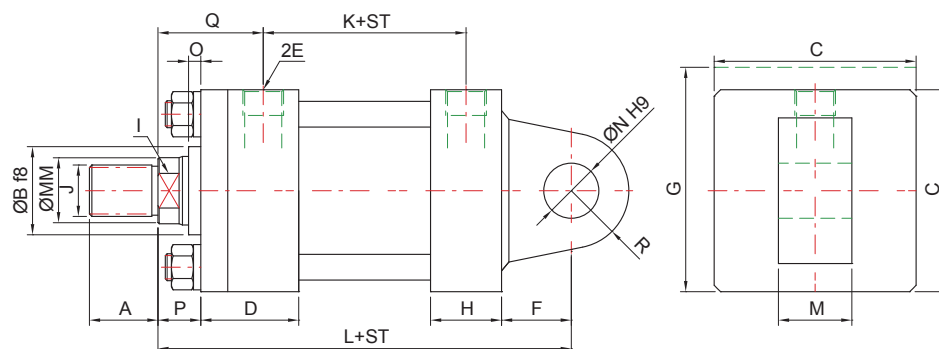
AT-MP1



DIMENSION

BORE	MM	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
Ø25	12 / 18	14 / 18	24 / 30	40	50	1/4"G	13	45	25	10 / 15	M10xP1.25 / M14xP1.5	53	12	24	10	6	15	50	10	127
Ø32	14 / 22	16 / 22	26 / 34	45	50	1/4"G	19	50	25	12 / 18	M12xP1.25 / M16xP1.5	56	16	32	12	12	25	60	14	147
Ø40	18 / 28	18 / 28	30 / 42	63	55	3/8"G	19	-	38	15 / 22	M14xP1.5 / M20xP1.5	73	20	40	14	12	25	62	14	172
Ø50	22 / 36	22 / 36	34 / 50	75	61	1/2"G	32	-	38	18 / 30	M16xP1.5 / M27xP2	74	30	60	20	9	25	67	24	191
Ø63	28 / 45	28 / 45	42 / 60	90	61	1/2"G	32	-	38	22 / 36	M20xP1.5 / M33xP2	80	30	60	20	13	32	71	24	200
Ø80	36 / 56	36 / 56	50 / 72	115	70	3/4"G	39	-	45	30 / 46	M27xP2 / M42xP2	98	40	80	28	9	31	77	30	229
Ø100	45 / 70	45 / 63	60 / 88	130	72	3/4"G	54	-	45	36 / 60	M33xP2 / M48xP2	101	50	100	36	10	35	82	40	257
Ø125	56 / 90	56 / 85	72 / 108	165	80	1"G	57	-	58	46 / 2xØ10	M42xP2 / M64xP3	117	60	120	45	10	35	86	47	289
Ø160	70 / 110	63 / 95	88 / 133	205	83	1"G	63	-	58	60 / 2xØ10	M48xP2 / M80xP3	130	70	140	56	7	32	86	54	308
Ø200	90 / 140	85 / 112	108 / 163	245	101	1 1/4"G	82	-	76	2xØ10	M64xP3 / M100xP3	165	80	160	70	7	32	98	70	381

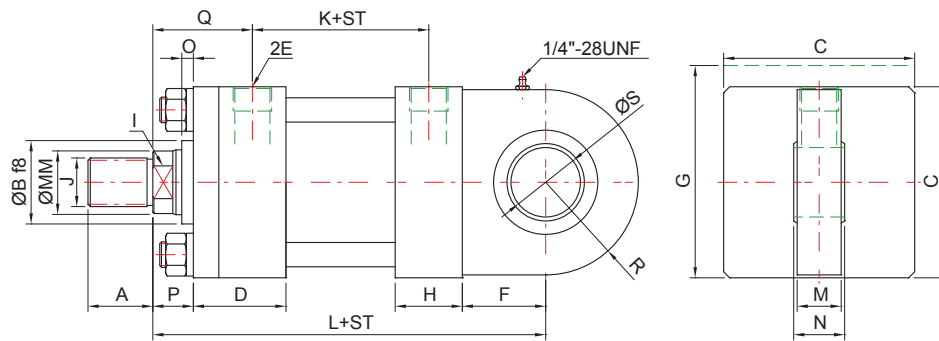
AT-MP3



DIMENSION

BORE	MM	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R
Ø25	12 / 18	14 / 18	24 / 30	40	50	1/4"G	13	45	25	10 / 15	M10xP1.25 / M14xP1.5	53	127	12	10	6	15	50	10
Ø32	14 / 22	16 / 22	26 / 34	45	50	1/4"G	19	50	25	12 / 18	M12xP1.25 / M16xP1.5	56	147	16	12	12	25	60	14
Ø40	18 / 28	18 / 28	30 / 42	63	55	3/8"G	19	-	38	15 / 22	M14xP1.5 / M20xP1.5	73	172	20	14	12	25	62	14
Ø50	22 / 36	22 / 36	34 / 50	75	61	1/2"G	32	-	38	18 / 30	M16xP1.5 / M27xP2	74	191	30	20	9	25	67	24
Ø63	28 / 45	28 / 45	42 / 60	90	61	1/2"G	32	-	38	22 / 36	M20xP1.5 / M33xP2	80	200	30	20	13	32	71	24
Ø80	36 / 56	36 / 56	50 / 72	115	70	3/4"G	39	-	45	30 / 46	M27xP2 / M42xP2	98	229	40	28	9	31	77	30
Ø100	45 / 70	45 / 63	60 / 88	130	72	3/4"G	54	-	45	36 / 60	M33xP2 / M48xP2	101	257	50	36	10	35	82	40
Ø125	56 / 90	56 / 85	72 / 108	165	80	1"G	57	-	58	46 / 2xØ10	M42xP2 / M64xP3	117	289	60	45	10	35	86	47
Ø160	70 / 110	63 / 95	88 / 133	205	83	1"G	63	-	58	60 / 2xØ10	M48xP2 / M80xP3	130	308	70	56	7	32	86	54
Ø200	90 / 140	85 / 112	108 / 163	245	101	1 1/4"G	82	-	76	2xØ10	M64xP3 / M100xP3	165	381	80	70	7	32	98	70

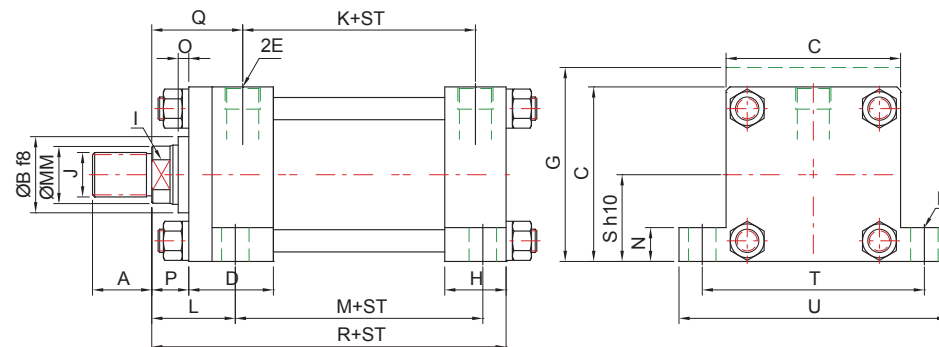
AT-MP5



DIMENSION

BORE	MM	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S
Ø25	12 / 18	14 / 18	24 / 30	40	50	1/4"G	16	45	25	10 / 15	M10xP1.25 / M14xP1.5	53	130	8	10	6	15	50	20	12
Ø32	14 / 22	16 / 22	26 / 34	45	50	1/4"G	20	50	25	12 / 18	M12xP1.25 / M16xP1.5	56	148	11	12	12	25	60	22.5	16
Ø40	18 / 28	18 / 28	30 / 42	63	55	3/8"G	25	-	38	15 / 22	M14xP1.5 / M20xP1.5	73	178	13	14	12	25	62	29	20
Ø50	22 / 36	22 / 36	34 / 50	75	61	1/2"G	31	-	38	18 / 30	M16xP1.5 / M27xP2	74	190	17	20	9	25	67	33	25
Ø63	28 / 45	28 / 45	42 / 60	90	61	1/2"G	38	-	38	22 / 36	M20xP1.5 / M33xP2	80	206	19	20	13	32	71	40	30
Ø80	36 / 56	36 / 56	50 / 72	115	70	3/4"G	48	-	45	30 / 46	M27xP2 / M42xP2	98	238	23	28	9	31	77	50	40
Ø100	45 / 70	45 / 63	60 / 88	130	72	3/4"G	58	-	45	36 / 60	M33xP2 / M48xP2	101	261	30	36	10	35	82	32	50
Ø125	56 / 90	56 / 85	72 / 108	165	80	1"G	72	-	58	46 / 2xØ10	M42xP2 / M64xP3	117	304	38	45	10	35	86	80	60
Ø160	70 / 110	63 / 95	88 / 133	205	83	1"G	92	-	58	60 / 2xØ10	M48xP2 / M80xP3	130	337	47	56	7	32	86	100	80
Ø200	90 / 140	85 / 112	108 / 163	245	101	1 1/4"G	116	-	76	2xØ10	M64xP3 / M100xP3	165	415	57	70	7	32	98	120	100

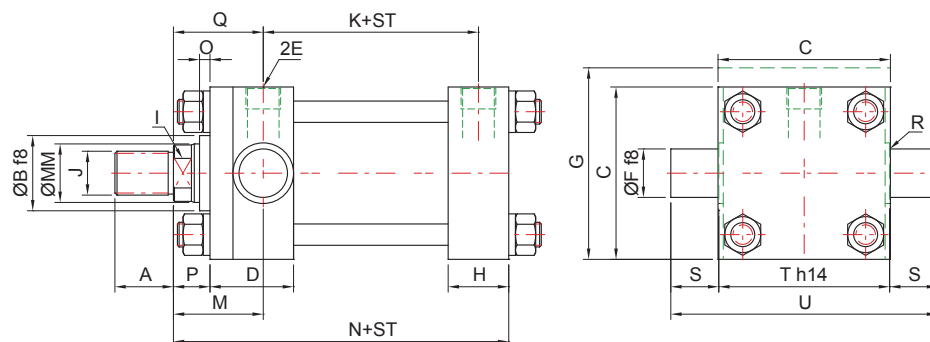
AT-MS2



DIMENSION

BORE	MM	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
Ø25	12 / 18	14 / 18	24 / 30	40	50	1/4"G	4xØ6.5	45	25	10 / 15	M10xP1.25/M14xP1.5	53	33	73	8.5	6	15	50	114	19	54	72
Ø32	14 / 22	16 / 22	26 / 34	45	50	1/4"G	4xØ9	50	25	12 / 18	M12xP1.25/M16xP1.5	56	45	73	12.5	12	25	60	128	22	63	84
Ø40	18 / 28	18 / 28	30 / 42	63	55	3/8"G	4xØ11	-	38	15 / 22	M14xP1.5 / M20xP1.5	73	45	98	12.5	12	25	62	153	31	83	103
Ø50	22 / 36	22 / 36	34 / 50	75	61	1/2"G	4xØ14	-	38	18 / 30	M16xP1.5 / M27xP2	74	54	92	19	9	25	67	159	37	102	127
Ø63	28 / 45	28 / 45	42 / 60	90	61	1/2"G	4xØ18	-	38	22 / 36	M20xP1.5 / M33xP2	80	65	86	26	13	32	71	168	44	124	161
Ø80	36 / 56	36 / 56	50 / 72	115	70	3/4"G	4xØ18	-	45	30 / 46	M27xP2 / M42xP2	98	68	105	26	9	31	77	190	57	149	186
Ø100	45 / 70	45 / 63	60 / 88	130	72	3/4"G	4xØ26	-	45	36 / 60	M33xP2 / M48xP2	101	79	102	32	10	35	82	203	63	172	216
Ø125	56 / 90	56 / 85	72 / 108	165	80	1"G	4xØ26	-	58	46 / 2xØ10	M42xP2 / M64xP3	117	79	131	32	10	35	86	232	82	210	254
Ø160	70 / 110	63 / 95	88 / 133	205	83	1"G	4xØ33	-	58	60 / 2xØ10	M48xP2 / M80xP3	130	86	130	38	7	32	86	245	101	260	318
Ø200	90 / 140	85 / 112	108 / 163	245	101	1 1/4"G	4xØ39	-	76	2xØ10	M64xP3 / M100xP3	165	92	172	44	7	32	98	299	122	311	381

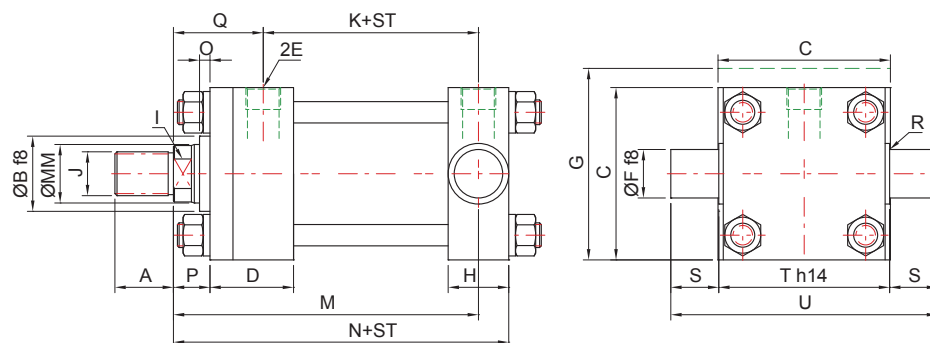
AT-MT1



DIMENSION

BORE	MM	A	B	C	D	E	F	G	H	I	J	K	M	N	O	P	Q	R	S	T	U
Ø25	12 / 18	14 / 18	24 / 30	40	50	1/4"G	12	45	25	10 / 15	M10xP1.25 / M14xP1.5	53	44	114	6	15	50	1	10	38	58
Ø32	14 / 22	16 / 22	26 / 34	45	50	1/4"G	16	50	25	12 / 18	M12xP1.25 / M16xP1.5	56	54	128	12	25	60	1	12	44	68
Ø40	18 / 28	18 / 28	30 / 42	63	55	3/8"G	20	-	38	15 / 22	M14xP1.5 / M20xP1.5	73	57	153	12	25	62	1	16	63	95
Ø50	22 / 36	22 / 36	34 / 50	75	61	1/2"G	25	-	38	18 / 30	M16xP1.5 / M27xP2.0	74	64	159	9	25	67	2	20	76	116
Ø63	28 / 45	28 / 45	42 / 60	90	61	1/2"G	32	-	38	22 / 36	M20xP1.5 / M33xP2.0	80	70	168	13	32	71	2	25	89	139
Ø80	36 / 56	36 / 56	50 / 72	115	70	3/4"G	40	-	45	30 / 46	M27xP2.0 / M42xP2.0	93	76	190	9	31	77	2	32	114	178
Ø100	45 / 70	45 / 63	60 / 88	130	72	3/4"G	50	-	45	36 / 60	M33xP2.0 / M48xP2.0	101	71	203	10	35	82	2	40	127	207
Ø125	56 / 90	56 / 85	72 / 108	165	80	1"G	63	-	58	46 / 2xØ10	M42xP2.0 / M64xP3.0	117	75	232	10	35	86	2	50	165	265
Ø160	70 / 110	63 / 95	88 / 133	205	88	1"G	80	-	58	60 / 2xØ10	M48xP2.0 / M80xP3.0	130	75	250	7	32	91	2	63	203	329
Ø200	90 / 140	85 / 112	108 / 163	245	108	1 1/4"G	100	-	76	2xØ10	M64xP3.0 / M100xP3.0	165	85	306	7	32	105	2	80	241	401

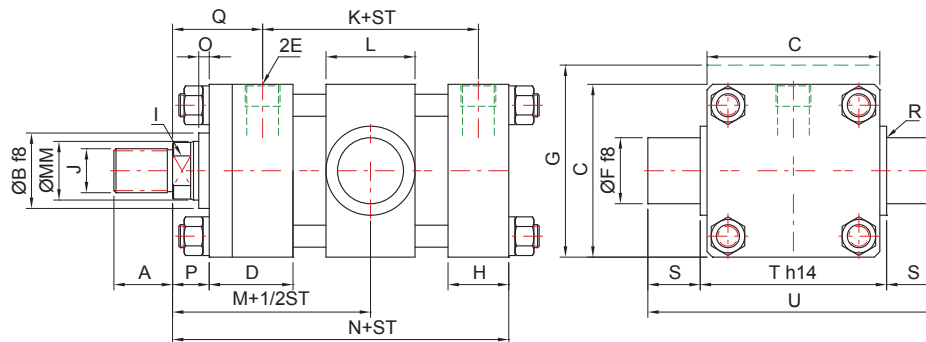
AT-MT2



DIMENSION

BORE	MM	A	B	C	D	E	F	G	H	I	J	K	M	N	O	P	Q	R	S	T	U
Ø25	12 / 18	14 / 18	24 / 30	40	50	1/4"G	12	45	25	10 / 15	M10xP1.25 / M14xP1.5	53	101	114	6	15	50	1	10	38	58
Ø32	14 / 22	16 / 22	26 / 34	45	50	1/4"G	16	50	25	12 / 18	M12xP1.25 / M16xP1.5	56	115	128	12	25	60	1	12	44	68
Ø40	18 / 28	18 / 28	30 / 42	63	55	3/8"G	20	-	38	15 / 22	M14xP1.5 / M20xP1.5	73	134	153	12	25	62	1	16	63	95
Ø50	22 / 36	22 / 36	34 / 50	75	61	1/2"G	25	-	38	18 / 30	M16xP1.5 / M27xP2.0	74	140	159	9	25	67	2	20	76	116
Ø63	28 / 45	28 / 45	42 / 60	90	61	1/2"G	32	-	38	22 / 36	M20xP1.5 / M33xP2.0	80	149	168	13	32	71	2	25	89	139
Ø80	36 / 56	36 / 56	50 / 72	115	70	3/4"G	40	-	45	30 / 46	M27xP2.0 / M42xP2.0	93	168	190	9	31	77	2	32	114	178
Ø100	45 / 70	45 / 63	60 / 88	130	72	3/4"G	50	-	58	36 / 60	M33xP2.0 / M48xP2.0	101	187	216	10	35	82	2	40	127	207
Ø125	56 / 90	56 / 85	72 / 108	165	80	1"G	63	-	70	46 / 2xØ10	M42xP2.0 / M64xP3.0	117	209	244	10	35	86	2	50	165	265
Ø160	70 / 110	63 / 95	88 / 133	205	83	1"G	80	-	87	60 / 2xØ10	M48xP2.0 / M80xP3.0	130	230	274	7	32	86	2	63	203	329
Ø200	90 / 140	85 / 112	108 / 163	245	101	1 1/4"G	100	-	107	2xØ10	M64xP3.0 / M100xP3.0	165	276	330	7	32	98	2	80	241	401

AT-MT4



DIMENSION

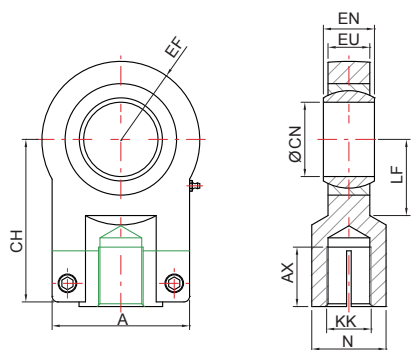
BORE	MM	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U
Ø25	12 / 18	14 / 18	24 / 30	40	50	1/4"G	12	45	25	10 / 15	M10xP1.25 / M14xP1.5	53	20	77	114	6	15	50	1	10	48	68
Ø32	14 / 22	16 / 22	26 / 34	45	50	1/4"G	16	50	25	12 / 18	M12xP1.25 / M16xP1.5	56	25	89	128	12	25	60	1	12	55	79
Ø40	18 / 28	18 / 28	30 / 42	63	55	3/8"G	20	-	38	15 / 22	M14xP1.5 / M20xP1.5	73	30	97.5	153	12	25	62	1	16	76	108
Ø50	22 / 36	22 / 36	34 / 50	75	61	1/2"G	25	-	38	18 / 30	M16xP1.5 / M27xP2.0	74	40	103.5	159	9	25	67	2	20	89	129
Ø63	28 / 45	28 / 45	42 / 60	90	61	1/2"G	32	-	38	22 / 36	M20xP1.5 / M33xP2.0	80	48	111.5	168	13	32	71	2	25	100	150
Ø80	36 / 56	36 / 56	50 / 72	115	70	3/4"G	40	-	45	30 / 46	M27xP2.0 / M42xP2.0	93	55	123	190	9	31	77	2	32	127	191
Ø100	45 / 70	45 / 63	60 / 88	130	72	3/4"G	50	-	45	36 / 60	M33xP2.0 / M48xP2.0	101	65	132.5	203	10	35	82	2	40	140	220
Ø125	56 / 90	56 / 85	72 / 108	165	80	1"G	63	-	58	46 / 2xØ10	M42xP2.0 / M64xP3.0	117	85	144.5	232	10	35	86	2	50	178	278
Ø160	70 / 110	63 / 95	88 / 133	205	83	1"G	80	-	58	60 / 2xØ10	M48xP2.0 / M80xP3.0	130	105	151	245	7	32	86	2	63	215	341
Ø200	90 / 140	85 / 112	108 / 163	245	101	1 1/4"G	100	-	76	2xØ10	M64xP3.0 / M100xP3.0	165	125	178	299	7	32	98	2	80	279	439

STANDARD CYLINDERS

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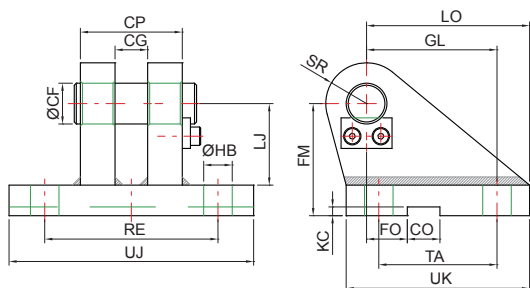
6020-2 AT



T-1

DIMENSION

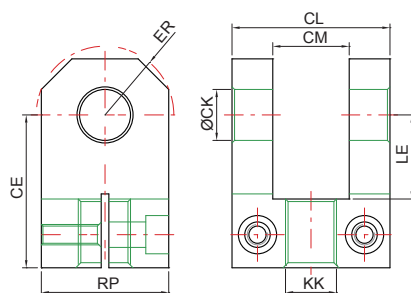
REFERENCE	KK	A	AX	CN	CH	EF	EN	EU	LF	N
T-1-12	M10x1.25	40	15	12	42	20	10	8	16	17
T-1-16	M12x1.25	45	17	16	48	22.5	14	11	20	21
T-1-20	M14x1.5	55	19	20	58	27.5	16	13	25	25
T-1-25	M16x1.5	62	23	25	68	32.5	20	17	30	30
T-1-30	M20x1.5	80	29	30	85	40	22	19	35	36
T-1-40	M27x2	90	37	40	105	50	28	23	45	45
T-1-50	M33x2	105	46	50	130	62.5	35	30	58	55
T-1-60	M42x2	134	57	60	150	80	44	38	68	68
T-1-80	M48x2	156	64	80	185	102.5	55	47	92	90
T-1-100	M64x3	190	86	100	240	120	70	57	116	110



T-2

DIMENSION

REFERENCE	CF	CG	CO	CP	FM	FO	GL	HB	KC	LJ	LO	RE	SR	TA	UJ	UK
T-2-12	12	10	10	30	40	16	46	9	3.3	29	56	55	12	40	75	60
T-2-16	16	14	16	40	50	18	61	11	4.3	38	74	70	16	55	95	80
T-2-20	20	16	16	50	55	20	64	14	4.3	40	80	85	20	58	120	90
T-2-25	25	20	25	60	65	22	78	16	5.4	49	98	100	25	70	140	110
T-2-30	30	22	25	70	85	24	97	18	5.4	63	120	115	30	90	160	135
T-2-40	40	28	36	80	100	24	123	22	8.4	73	148	135	40	120	190	170
T-2-50	50	35	36	100	125	35	155	30	8.4	92	190	170	50	145	240	215
T-2-60	60	44	50	120	150	35	187	39	11.4	110	225	200	60	185	270	260
T-2-80	80	55	50	160	190	35	255	45	11.4	142	295	240	80	260	320	340
T-2-100	100	70	63	200	210	35	285	48	12.4	152	335	300	100	300	400	400



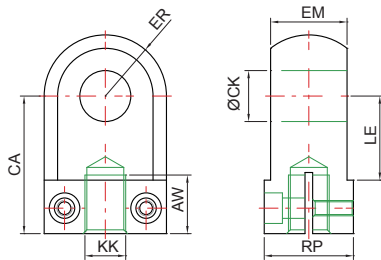
T-6

DIMENSION

REFERENCE	KK	CE	CK	CL	CM	ER	LE	RP
T-6-10	M10x1.25	32	10	26	12	12	14	21
T-6-12	M12x1.25	36	12	34	16	17	20	28
T-6-16	M14x1.5	38	14	42	20	17	20	30
T-6-20	M16x1.5	54	20	62	30	27	33	50
T-6-25	M20x1.5	60	20	62	30	27	33	50
T-6-30	M27x2	75	28	83	40	33	40	62
T-6-40	M33x2	99	36	103	50	48	55	85
T-6-50	M42x2	113	45	123	60	52	58	90
T-6-60	M48x2	126	56	143	70	59	64	112
T-6-80	M64x3	168	70	163	80	78	84	140

T-7

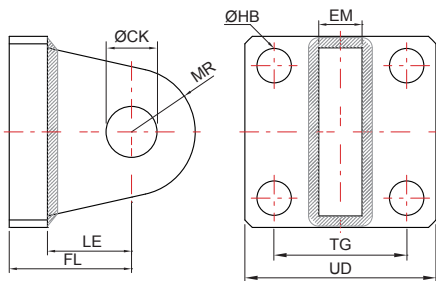
DIMENSION



REFERENCE	KK	AW	CA	CK	EM	ER	LE	RP
T-7-10	M10x1.25	15	32	10	12	11	14	19
T-7-12	M12x1.25	17	36	12	16	14	20	25
T-7-16	M14x1.5	19	38	14	20	16	20	28
T-7-20	M16x1.5	23	54	20	30	24	33	35
T-7-25	M20x1.5	29	60	20	30	24	33	40
T-7-30	M27x2	37	75	28	40	31	40	50
T-7-40	M33x2	46	99	36	50	41	55	60
T-7-50	M42x2	57	113	45	60	48	58	80
T-7-60	M48x2	64	126	56	70	58	64	90
T-7-80	M64x3	86	168	70	80	73	84	110

T-8

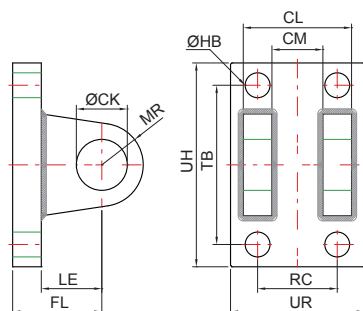
DIMENSION



REFERENCE	CK	HB	EM	FL	LE	MR	TG	UD
T-8-10	10	5.5	12	23	14	11	28.3	40
T-8-12	12	6.5	16	29	20	15	33.2	45
T-8-16	14	9	20	29	20	16	41.7	65
T-8-20	20	13.5	30	48	33	25	52.3	75
T-8-25	20	13.5	30	48	33	28	64.3	90
T-8-30	28	17.5	40	59	40	33	82.7	115
T-8-40	36	17.5	50	79	55	45	96.9	130
T-8-50	45	24	60	87	58	52	125.9	165
T-8-60	56	30	70	103	64	58	154.9	205
T-8-80	70	33	80	132	84	75	190.2	240

T-9

DIMENSION



REFERENCE	CK	CL	CM	FL	HB	LE	MR	RC	TB	UH	UR
T-9-10	10	26	12	23	5.5	14	11	18	47	60	35
T-9-12	12	34	16	29	6.5	20	17	24	57	73	45
T-9-16	14	42	20	29	9	20	17	30	68	88	55
T-9-20	20	62	30	48	13.5	33	29	45	102	132	80
T-9-25	20	62	30	48	13.5	33	29	45	102	132	80
T-9-30	28	83	40	59	17.5	40	34	60	135	175	100
T-9-40	36	103	50	79	17.5	55	50	75	167	212	130
T-9-50	45	123	60	87	24	58	50	90	203	238	150
T-9-60	56	143	70	103	30	64	58	105	242	302	180
T-9-80	70	163	80	132	33	84	70	120	300	370	200

STANDARD CYLINDERS

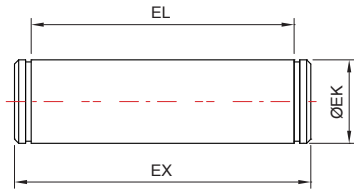
ISO 6020-2

16Mpa Standard Hydraulic Cylinders

6020-2 AT

T-10

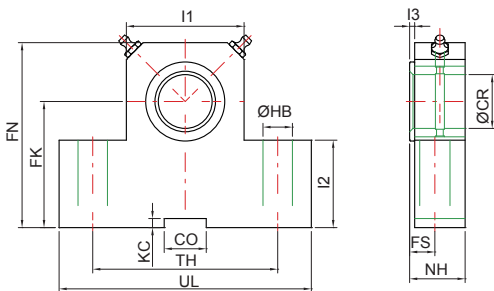
DIMENSION



REFERENCE	EK	EL	EX
T-10-10	10	27	34
T-10-12	12	35	43
T-10-16	14	43	51
T-10-20	20	63	73
T-10-25	20	63	73
T-10-30	28	84	95
T-10-40	36	104	117
T-10-50	45	124	139
T-10-60	56	144	161
T-10-80	70	164	181

T-15

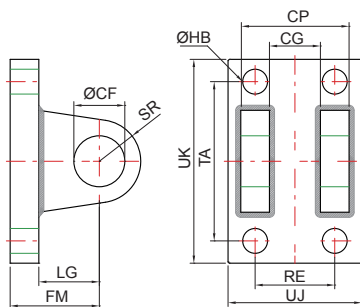
DIMENSION



REFERENCE	CR	CO	FK	FN	FS	HB	KC	NH	TH	UL	I1	I2	I3
T-15-12	12	10	38	55	8	9	3.3	17	40	63	25	25	1
T-15-16	16	16	45	65	10	11	4.3	21	50	80	30	30	1
T-15-20	20	16	55	80	10	11	4.3	21	60	90	40	38	1.5
T-15-25	25	25	65	90	12	14	5.4	26	80	110	56	45	1.5
T-15-32	32	25	75	110	15	18	5.4	33	110	150	70	52	2
T-15-40	40	36	95	140	16	22	8.4	41	125	170	88	60	2.5
T-15-50	50	36	105	150	20	26	8.4	51	160	210	90	72	2.5
T-15-63	63	50	125	195	25	33	11.4	61	200	265	136	87	3
T-15-80	80	50	150	230	31	39	11.4	81	250	325	160	112	3.5
T-15-100	100	63	200	300	42	52	12.4	101	320	410	200	150	4.5

T-16

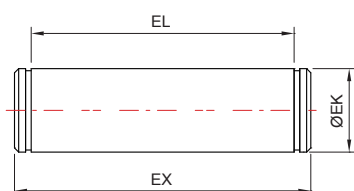
DIMENSION



REFERENCE	CF	CG	CP	FM	HB	LG	RE	SR	TA	UJ	UK
T-16-12	12	12	30	36	6.5	27	20	16	65	40	81
T-16-16	16	16	38	42	9	33	25	20	84	50	104
T-16-20	20	18	50	51	13.5	36	33	24	106	70	136
T-16-25	25	22	54	64	13.5	49	37	30	130	75	160
T-16-30	30	24	67	72	17.5	53	44	35	137	90	177
T-16-40	40	30	83	104	17.5	80	55	45	191	110	236
T-16-50	50	38	101	123	24	94	68	55	234	130	289
T-16-63	63	47	120	144	30	105	82	59	288	150	348
T-16-80	80	58	141	182	33	133	98	78	366	180	436
T-16-100	100	75	165	195	39	140	130	100	390	205	470

T-17

DIMENSION



REFERENCE	EK	EL	EX
T-17-12	12	31	39
T-17-16	16	39	47
T-17-20	20	51	61
T-17-25	25	55	65
T-17-30	30	68	78
T-17-40	40	84	97
T-17-50	50	102	120
T-17-63	60	121	139
T-17-80	80	142	160
T-17-100	100	166	186

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