AIR MOTORS CATALOGUE

modec
moteurs & solutions pneumatiques

07 SERIE

modec
moteurs & solutions pneumatiques

MAX POWER
480 W
MAX TORQUE
640 Nm

"07" series air motors are **much appreciated in pharmacy, chemistry and food processing industries.** Sealed and **made of stainless steel**, they are **waterproof, resistant to corrosive product**s and their exhaust is collected so that there is **no risk of pollution**.

Like any of our air motors, "07" series air motors **can be used without lubrication** on demand in order to reduce even more any risk of oil exhaust.

Although they have a minimal size and weight, they **can develop up to 480W**.

MTE 07
MTS 07
MTH 07
MRH 07
MRZ 07

+ ACCESSORIES FOR THIS MOTOR	Reference
Filtration, pressure Regulation and Lubrication unit (FRL)	AC106
Safety Air Treatment Box (SAT Box)	AC118
With Pedal remote control	AC119
With handle remote control	AC120
With remote emergency kill switch	AC125
With remote E-Stop and pedal remote control	AC121
With remote E-Stop and handle remote control	AC122
Maintenance kits	
Maintenance kit for "07" series	AC301
Maintenance kit for lube free "07" series	AC311
Maintenance kit for kit start "07" series	AC321
modec Oil Co-16	AC149
Filters and silencers	
Metallic standard exhaust silencer	AC168
Metallic standard inlet silencer	AC180
Plastic standard exhaust silencer	AC166
Plastic standard inlet silencer	AC150
Heavy duty exhaust silencer	AC167
Heavy duty inlet silencer	AC154
Speed control muffler	AC171
High flow air muffler	AC158
Exhaust silencer filter	AC165

CONNECTION AND LUBRICATION

Min. fittings Ø		Min. pipe Ø		Lubrification (6,2 bars)
In	Out	In	Out	
5 mm / 0,2 In	7 mm / 0,3 In	6 mm / 0,2 In	9 mm / 0,4 In	3 drops / minute

CONVERSION TABLE

Watt ➡ Horse power	Newton meter ➡ Pound feet	Millimeter ➡ Inch
Watt x 0,001341 = hp	Nm x 0,7376 = lb.ft	mm x 0,03937 = in
Bar ➡ Pound per square Inch	Normo Liter / minute ➡ Standard cubic feet per minute	Kilogram ➡ Pound
Bar x 14,5 = psi	NL / min x 0,03531 = scfm	Kg x 2,205 = lb

MOTOR MTE 07

POWER 380-480 W

MTE 07

REDUCTION RATIO (3 digits) *See table*

OPTIONS (2 digits) *See table*

M	T	E	0	7	X	X	X	X	X	X	X	X	X	–	X	X

ROTATION*
- RT Right (Clockwise)
- LT Left (CCW)
- RV Reversible

FLANGE (1 to 2 digits)

OUTPUT SHAFT (1 to 3 digits)

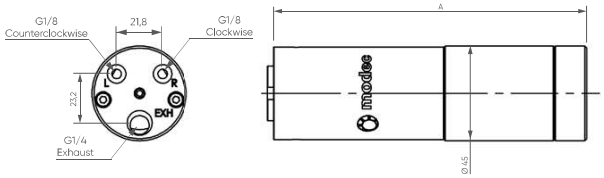
** rotation direction is defined when looking from the back of the motor*

OPTIONS AVAILABLE FOR THIS MOTOR

Collected exhaust*	■	■	■	■	■	■
ATEX certification		■			■	■
Lubrication free			■		■	
Kit start				■		■
Stainless steel	■	■	■	■	■	■
Code	11	23	27	28	36	37

LAYOUT

MTE 07



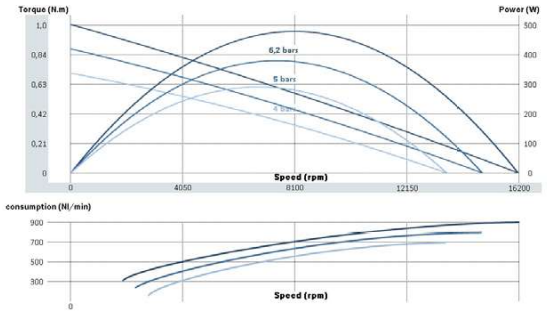
PERFORMANCES

MTE 07 XT Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm) @ max Power	Speed (rpm) Free	Torque (N.m) @ max Power	Torque (N.m) Max (stall)	Torque (N.m) Starting torque	Max Power (W)	Air cons (Nl/min)	Dimensions A (mm)	Dimensions Ø (mm)	Dimensions Weight (kg)
MTE 07 XT 001	1	6,2 bars	8100	16200	0,56	1,0	0,92	480	700	132	45	1,4
		5 bars	7400	14800	0,48	0,88	0,77	380	600			
		4 bars	6800	13600	0,41	0,70	0,62	290	500			
MTE 07 RV 001	1	6,2 bars	6900	13800	0,53	0,92	0,81	380	700	132	45	1,4
		5 bars	6200	12400	0,45	0,75	0,66	290	600			
		4 bars	5800	11600	0,36	0,61	0,54	220	500			

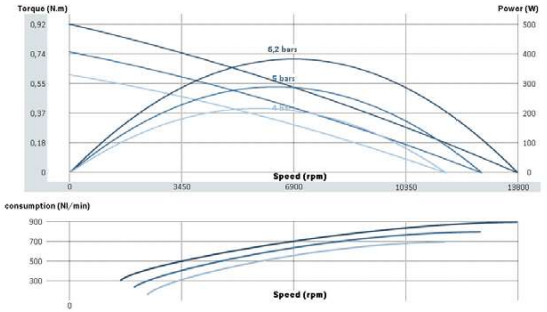
Data indicated in this table have an accuracy of +/- 5%

POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

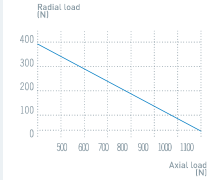
MTE 07 XT



MTE 07 RV



MAXIMUM RADIAL & AXIAL LOAD



for 100 millions revolutions
(load applied @ half shaft length)

NOTES

MOTOR MTS 07

POWER 380-480 W

MTS 07

REDUCTION RATIO (3 digits) *See table*

OPTIONS (2 digits) *See table*

M	T	S	0	7	X	X	X	X	X	X	X	X	X	—	X	X

ROTATION*
- RT Right (Clockwise)
- LT Left (CCW)
- RV Reversible

FLANGE (1 to 2 digits)

OUTPUT SHAFT (1 to 3 digits)

** rotation direction is defined when looking from the back of the motor*

PERFORMANCES

MTS 07 XT

Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm) @ max Power	Speed (rpm) Free	Torque (N.m) @ max Power	Torque (N.m) Max (stall)	Torque (N.m) Starting torque	Max Power (W)	Air cons (Nl/min)	Dimensions A (mm)	Dimensions Ø (mm)	Weight (kg)
MTS 07 XT 003	3	6,2 bars	2453	4907	1,9	3,5	3,0	477	700	132	45	1,4
		5 bars	2259	4519	1,6	2,9	2,5	378	600			
		4 bars	2075	4150	1,3	2,3	2,0	291	500			
MTS 07 XT 005	5	6,2 bars	1799	3598	2,5	4,7	4,1	477	700	132	45	1,4
		5 bars	1657	3314	2,2	3,9	3,5	378	600			
		4 bars	1522	3044	1,8	3,2	2,8	291	500			
MTS 07 XT 008	8	6,2 bars	1012	2024	4,5	8,4	7,4	477	700	132	45	1,4
		5 bars	932	1864	3,9	7,0	6,2	378	600			
		4 bars	856	1712	3,3	5,6	5,0	291	500			
MTS 07 XT 011	11	6,2 bars	743	1487	6,1	11	10	477	700	149,7	45	1,6
		5 bars	685	1369	5,3	9,5	8,4	378	600			
		4 bars	629	1258	4,4	7,7	6,7	291	500			
MTS 07 XT 015	15	6,2 bars	545	1090	8,4	16	14	477	700	149,7	45	1,6
		5 bars	502	1004	7,2	13	11	378	600			
		4 bars	461	922	6,0	10	9,2	291	500			
MTS 07 XT 020	20	6,2 bars	400	800	11	21	19	477	700	149,7	45	1,6
		5 bars	368	736	9,8	18	16	378	600			
		4 bars	338	676	8,2	14	13	291	500			
MTS 07 XT 026	26	6,2 bars	307	613	15	28	24	477	700	149,7	45	1,6
		5 bars	282	565	13	23	20	378	600			
		4 bars	259	519	11	19	16	291	500			
MTS 07 XT 036	36	6,2 bars	225	450	20	38	33	477	700	149,7	45	1,6
		5 bars	207	414	17	32	28	378	600			
		4 bars	190	380	15	25	22	291	500			
MTS 07 XT 049	49	6,2 bars	165	330	28	51	45	477	700	170,7	45	1,7
		5 bars	152	304	24	43	38	378	600			
		4 bars	140	279	20	34	30	291	500			
MTS 07 XT 064	64	6,2 bars	127	253	36	67	59	477	700	149,7	45	1,6
		5 bars	117	233	31	56	49	378	600			
		4 bars	107	214	26	45	40	291	500			

MTS 07 RV

Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm) @ max Power	Speed (rpm) Free	Torque (N.m) @ max Power	Torque (N.m) Max (stall)	Torque (N.m) Starting torque	Max Power (W)	Air cons (Nl/min)	Dimensions A (mm)	Dimensions Ø (mm)	Weight (kg)
MTS 07 RV 003	3	6,2 bars	2085	4170	1,8	3,0	2,7	383	700	132	45	1,4
		5 bars	1920	3840	1,5	2,5	2,2	295	600			
		4 bars	1765	3530	1,2	2,0	1,8	219	500			
MTS 07 RV 005	5	6,2 bars	1529	3058	2,4	4,1	3,7	383	700	132	45	1,4
		5 bars	1408	2816	2,0	3,4	3,0	295	600			
		4 bars	1294	2588	1,6	2,7	2,4	219	500			
MTS 07 RV 008	8	6,2 bars	860	1720	4,3	7,4	6,5	383	700	132	45	1,4
		5 bars	792	1584	3,6	6,0	5,3	295	600			
		4 bars	728	1456	2,9	4,9	4,3	219	500			
MTS 07 RV 011	11	6,2 bars	632	1264	5,8	10	8,8	383	700	149,7	45	1,6
		5 bars	582	1164	4,8	8,2	7,2	295	600			
		4 bars	535	1070	3,9	6,6	5,8	219	500			
MTS 07 RV 015	15	6,2 bars	463	927	7,9	14	12	383	700	149,7	45	1,6
		5 bars	427	853	6,6	11	9,8	295	600			
		4 bars	392	784	5,3	9,0	8,0	219	500			
MTS 07 RV 020	20	6,2 bars	340	680	11	19	16	383	700	149,7	45	1,6
		5 bars	313	626	9,0	15	13	295	600			
		4 bars	288	575	7,3	12	11	219	500			
MTS 07 RV 026	26	6,2 bars	261	521	14	24	21	383	700	149,7	45	1,6
		5 bars	240	480	12	20	17	295	600			
		4 bars	221	441	9,5	16	14	219	500			
MTS 07 RV 036	36	6,2 bars	191	382	19	33	29	383	700	149,7	45	1,6
		5 bars	176	352	16	27	24	295	600			
		4 bars	162	324	13	22	19	219	500			
MTS 07 RV 049	49	6,2 bars	140	281	26	45	40	383	700	170,7	45	1,7
		5 bars	129	259	22	37	32	295	600			
		4 bars	119	238	18	30	26	219	500			
MTS 07 RV 064	64	6,2 bars	108	215	34	59	52	383	700	149,7	45	1,6
		5 bars	99	198	28	48	42	295	600			
		4 bars	91	182	23	39	34	219	500			

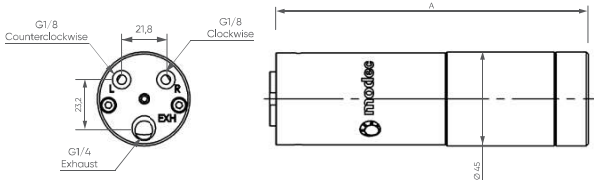
Data indicated in this table have an accuracy of +/- 5%

OPTIONS AVAILABLE FOR THIS MOTOR

Collected exhaust*	●	●	●	●	●	●
ATEX certification		●			●	●
Lubrication free			●		●	
Kit start				●		●
Stainless steel	●	●	●	●	●	●
Code	11	23	27	28	36	37

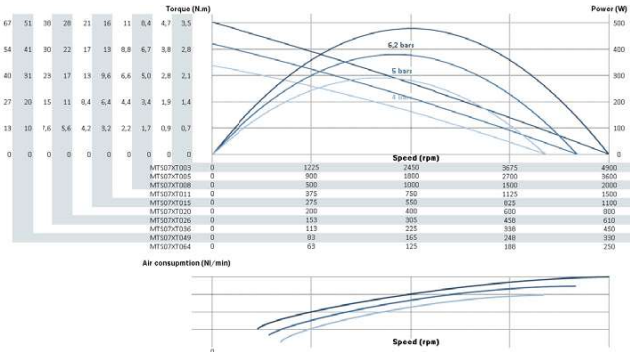
LAYOUT

MTS 07

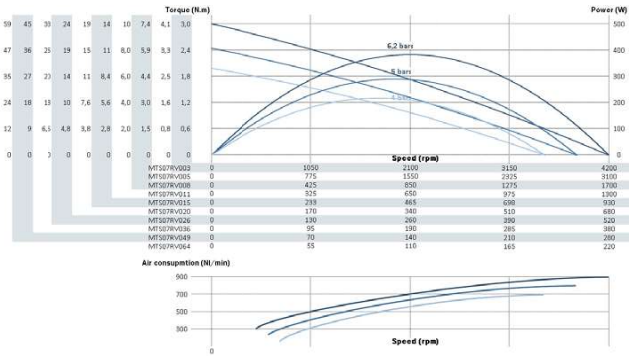


POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

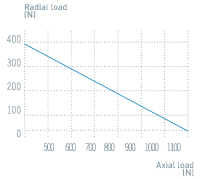
MTS 07 XT



MTS 07 RV



MAXIMUM RADIAL & AXIAL LOAD



for 100 millions revolutions
(load applied @ half shaft length)

NOTES

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MOTOR MTH 07

POWER 380-470 W

MTH 07

M	T	H	0	7	X	X	X	X	X	X	X	X	X	—	X	X

REDUCTION RATIO (3 digits) *See table*

OPTIONS (2 digits) *See table*

ROTATION* RT Right (Clockwise) · LT Left (CCW) · RV Reversible

FLANGE (1 to 2 digits)

OUTPUT SHAFT (1 to 3 digits)

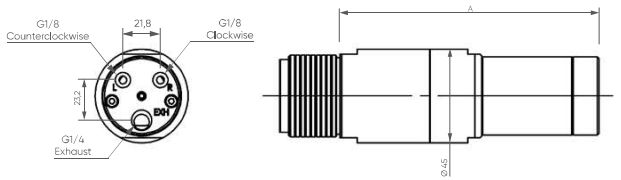
** rotation direction is defined when looking from the back of the motor*

OPTIONS AVAILABLE FOR THIS MOTOR

Collected exhaust	●	●	●	●	●	●
ATEX certification		●			●	●
Lubrication free			●		●	
Kit start				●		●
Code	01	07	09	10	21	22

LAYOUT

MTH 07



PERFORMANCES

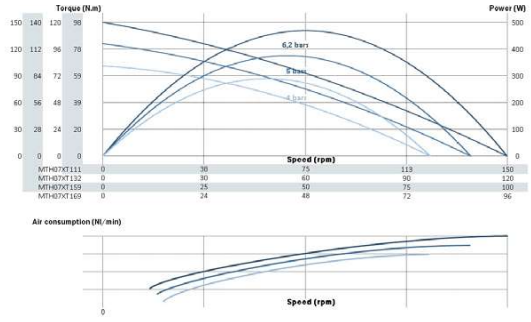
MTH 07 XT Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm) @ max Power	Speed (rpm) Free	Torque (N.m) @ max Power	Torque (N.m) Max (stall)	Torque (N.m) Starting torque	Max Power (W)	Air cons (Nl/min)	Dimensions A (mm)	Dimensions Ø (mm)	Dimensions Weight (kg)
MTH 07 XT 111	111	6,2 bars	73	147	61	98	87	469	700	174,5	54	2,2
		5 bars	66	133	53	83	73	369	600			
		4 bars	59	119	46	66	58	284	500			
MTH 07 XT 132	132	6,2 bars	61	123	73	118	104	469	700	174,5	54	2,2
		5 bars	55	111	64	99	87	369	600			
		4 bars	49	99	55	79	70	284	500			
MTH 07 XT 159	159	6,2 bars	51	102	87	141	124	469	700	174,5	54	2,2
		5 bars	46	93	76	118	104	369	600			
		4 bars	41	83	66	95	84	284	500			
MTH 07 XT 169	169	6,2 bars	48	96	93	150	132	469	700	174,5	54	2,2
		5 bars	44	87	81	126	111	369	600			
		4 bars	39	78	70	101	89	284	500			

MTH 07 RV Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm) @ max Power	Speed (rpm) Free	Torque (N.m) @ max Power	Torque (N.m) Max (stall)	Torque (N.m) Starting torque	Max Power (W)	Air cons (Nl/min)	Dimensions A (mm)	Dimensions Ø (mm)	Dimensions Weight (kg)
MTH 07 RV 111	111	6,2 bars	62	125	58	87	76	379	700	174,5	54	2,2
		5 bars	57	113	49	71	63	289	600			
		4 bars	50	101	41	57	51	216	500			
MTH 07 RV 132	132	6,2 bars	52	104	69	104	91	379	700	174,5	54	2,2
		5 bars	47	95	58	85	75	289	600			
		4 bars	42	84	49	69	61	216	500			
MTH 07 RV 159	159	6,2 bars	44	87	83	124	109	379	700	174,5	54	2,2
		5 bars	40	79	70	102	90	289	600			
		4 bars	35	70	59	83	73	216	500			
MTH 07 RV 169	169	6,2 bars	41	82	88	132	117	379	700	174,5	54	2,2
		5 bars	37	74	74	109	95	289	600			
		4 bars	33	66	63	88	77	216	500			
MTH 07 RV 202	202	6,2 bars	34	68	106	159	140	379	700	174,5	54	2,2
		5 bars	31	62	89	130	114	289	600			
		4 bars	28	55	75	105	93	216	500			

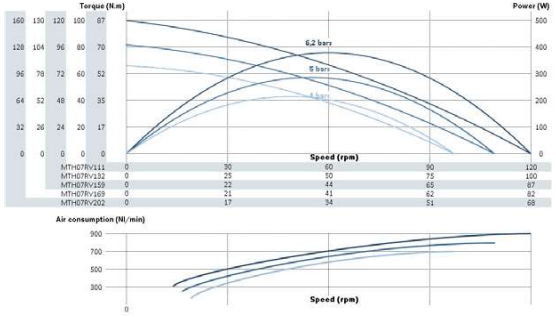
Data indicated in this table have an accuracy of +/- 5%

POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

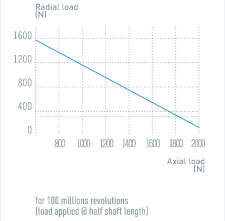
MTH 07 XT



MTH 07 RV



MAXIMUM RADIAL & AXIAL LOAD



for 100 millions revolutions
(load applied @ half shaft length)

NOTES

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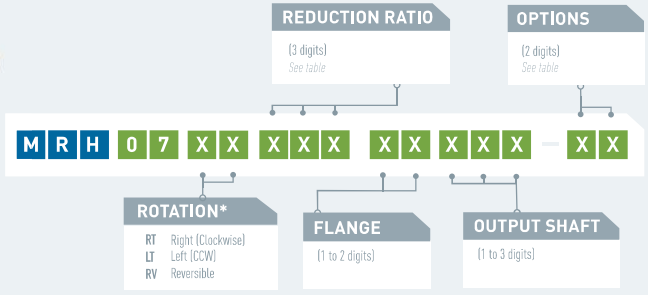
MOTOR MRH 07

POWER 360-440 W

MRH 07



* rotation direction is defined when looking from the back of the motor

PERFORMANCES

MRH 07 XT

Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm) @ max Power	Speed (rpm) Free	Torque (N.m) @ max Power	Torque (N.m) Max (stall)	Torque (N.m) Starting torque	Max Power (W)	Air cons (Nl/min)	Dimensions A (mm)	Dimensions Ø (mm)	Dimensions Weight (kg)
MRH 07 XT 47	47	6,2 bars	165	331	25	40	35	441	700	242,5	54	3,1
		5 bars	149	299	22	33	29	338	600			
		4 bars	133	267	18	27	24	258	500			
MRH 07 XT 56	56	6,2 bars	138	276	30	48	42	441	700	242,5	54	3,1
		5 bars	125	249	26	40	35	338	600			
		4 bars	111	223	22	32	28	258	500			
MRH 07 XT 67	67	6,2 bars	116	231	36	57	50	441	700	242,5	54	3,1
		5 bars	104	208	31	48	42	338	600			
		4 bars	93	186	26	39	34	258	500			
MRH 07 XT 80	80	6,2 bars	96	193	44	68	60	441	700	242,5	54	3,1
		5 bars	87	174	37	57	50	338	600			
		4 bars	78	156	32	46	41	258	500			
MRH 07 XT 102	102	6,2 bars	76	151	56	87	77	441	700	242,5	54	3,1
		5 bars	68	137	47	73	64	338	600			
		4 bars	61	122	40	59	52	258	500			
MRH 07 XT 147	147	6,2 bars	53	105	80	125	110	441	700	266,5	54	3,4
		5 bars	48	95	68	105	92	338	600			
		4 bars	42	85	58	85	74	258	500			
MRH 07 XT 176	176	6,2 bars	44	88	96	150	132	441	700	266,5	54	3,4
		5 bars	40	79	81	126	111	338	600			
		4 bars	35	71	69	101	89	258	500			

MRH 07 RV

Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm) @ max Power	Speed (rpm) Free	Torque (N.m) @ max Power	Torque (N.m) Max (stall)	Torque (N.m) Starting torque	Max Power (W)	Air cons (Nl/min)	Dimensions A (mm)	Dimensions Ø (mm)	Dimensions Weight (kg)
MRH 07 RV 47	47	6,2 bars	141	281	24	35	31	356	700	242,5	54	3,1
		5 bars	127	255	20	29	25	271	600			
		4 bars	113	227	17	23	21	202	500			
MRH 07 RV 56	56	6,2 bars	117	235	29	42	37	356	700	242,5	54	3,1
		5 bars	106	213	24	35	31	271	600			
		4 bars	95	189	20	28	25	202	500			
MRH 07 RV 67	67	6,2 bars	98	196	35	50	44	356	700	242,5	54	3,1
		5 bars	89	178	29	41	36	271	600			
		4 bars	79	158	24	33	29	202	500			
MRH 07 RV 80	80	6,2 bars	82	164	41	60	53	356	700	242,5	54	3,1
		5 bars	74	148	35	50	44	271	600			
		4 bars	66	132	29	40	35	202	500			
MRH 07 RV 102	102	6,2 bars	64	129	53	77	68	356	700	242,5	54	3,1
		5 bars	58	116	45	63	56	271	600			
		4 bars	52	104	37	51	45	202	500			
MRH 07 RV 147	147	6,2 bars	45	89	76	110	97	356	700	266,5	54	3,4
		5 bars	41	81	64	91	80	271	600			
		4 bars	36	72	54	73	64	202	500			
MRH 07 RV 176	176	6,2 bars	37	75	91	132	116	356	700	266,5	54	3,4
		5 bars	34	68	77	109	96	271	600			
		4 bars	30	60	64	88	77	202	500			

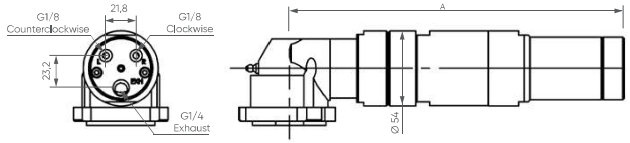
Data indicated in this table have an accuracy of +/- 5%

OPTIONS AVAILABLE FOR THIS MOTOR

Collected exhaust	➡	➡	➡	➡	➡	➡
ATEX certification		➡			➡	➡
Lubrication free			➡		➡	
Kit start				➡		➡
Code	01	07	09	10	21	22

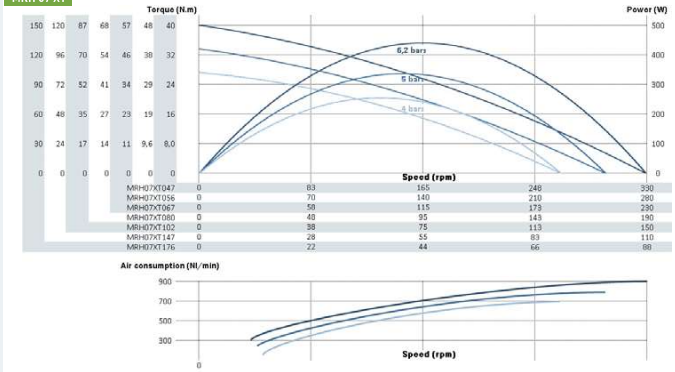
LAYOUT

MRH 07

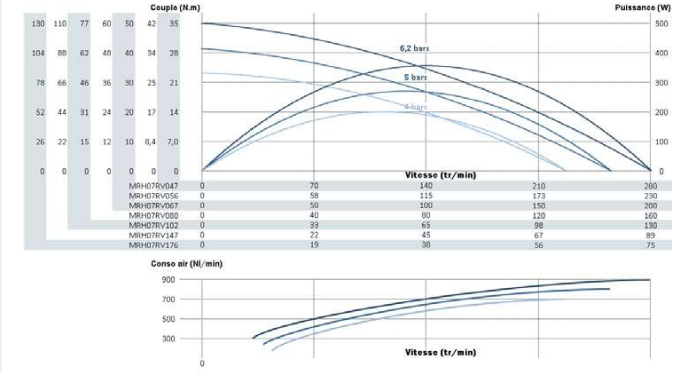


POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

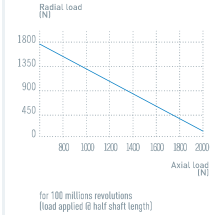
MRH 07 XT



MRH 07 RV



MAXIMUM RADIAL & AXIAL LOAD



for 100 millions revolutions
(load applied @ half shaft length)

NOTES

MOTOR MRZ 07
POWER 360-440 W

MRZ 07

REDUCTION RATIO (3 digits) *See table*

OPTIONS (2 digits) *See table*

M	R	Z	0	7	X	X	X	X	X	X	X	X	X	—	X	X

ROTATION*
- RT Right (Clockwise)
- LT Left (CCW)
- RV Reversible

FLANGE (1 to 2 digits)

OUTPUT SHAFT (1 to 3 digits)

** rotation direction is defined when looking from the back of the motor*

PERFORMANCES

MRZ 07 XT Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm) @ max Power	Speed (rpm) Free	Torque (N.m) @ max Power	Torque (N.m) Max (stall)	Torque (N.m) Starting torque	Max Power (W)	Air cons (Nl/min)	Dimensions A (mm)	Dimensions Ø (mm)	Weight (kg)
MRZ 07 XT 225	225	6,2 bars	34	69	122	192	169	441	700	266,5	54	4,9
		5 bars	31	62	104	160	141	338	600			
		4 bars	28	56	89	129	114	258	500			
MRZ 07 XT 269	269	6,2 bars	29	58	146	230	202	441	700	266,5	54	4,9
		5 bars	26	52	124	192	169	338	600			
		4 bars	23	46	106	155	136	258	500			
MRZ 07 XT 322	322	6,2 bars	24	48	175	275	242	441	700	266,5	54	4,9
		5 bars	22	43	149	230	202	338	600			
		4 bars	19	39	127	185	163	258	500			
MRZ 07 XT 411	411	6,2 bars	19	38	223	350	308	441	700	266,5	54	4,9
		5 bars	17	34	190	293	258	338	600			
		4 bars	15	30	162	236	208	258	500			
MRZ 07 XT 524	524	6,2 bars	15	30	285	447	393	441	700	266,5	54	4,9
		5 bars	13	27	242	374	329	338	600			
		4 bars	12	24	207	301	265	258	500			
MRZ 07 XT 589	589	6,2 bars	13	26	320	502	442	441	700	266,5	54	4,9
		5 bars	12	24	272	420	370	338	600			
		4 bars	11	21	232	338	298	258	500			
MRZ 07 XT 750	750	6,2 bars	10	21	408	640	563	441	700	266,5	54	4,9
		5 bars	9,3	19	347	536	471	338	600			
		4 bars	8,3	17	296	431	380	258	500			

MRZ 07 RV Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm) @ max Power	Speed (rpm) Free	Torque (N.m) @ max Power	Torque (N.m) Max (stall)	Torque (N.m) Starting torque	Max Power (W)	Air cons (Nl/min)	Dimensions A (mm)	Dimensions Ø (mm)	Weight (kg)
MRZ 07 RV 225	225	6,2 bars	29	59	116	169	148	356	700	266,5	54	4,9
		5 bars	27	53	98	139	122	271	600			
		4 bars	24	47	82	112	98	202	500			
MRZ 07 RV 269	269	6,2 bars	24	49	139	202	178	356	700	266,5	54	4,9
		5 bars	22	44	117	166	146	271	600			
		4 bars	20	39	98	134	118	202	500			
MRZ 07 RV 322	322	6,2 bars	20	41	167	242	213	356	700	266,5	54	4,9
		5 bars	18	37	140	199	175	271	600			
		4 bars	16	33	117	161	141	202	500			
MRZ 07 RV 411	411	6,2 bars	16	32	212	309	272	356	700	266,5	54	4,9
		5 bars	14	29	179	254	224	271	600			
		4 bars	13	26	149	205	180	202	500			
MRZ 07 RV 524	524	6,2 bars	13	25	271	393	346	356	700	266,5	54	4,9
		5 bars	11	23	228	324	285	271	600			
		4 bars	10	20	191	261	230	202	500			
MRZ 07 RV 589	589	6,2 bars	11	22	304	442	389	356	700	266,5	54	4,9
		5 bars	10	20	256	364	320	271	600			
		4 bars	9,0	18	214	293	258	202	500			
MRZ 07 RV 750	750	6,2 bars	8,8	18	388	564	496	356	700	266,5	54	4,9
		5 bars	7,9	16	326	464	409	271	600			
		4 bars	7,1	14	273	374	329	202	500			

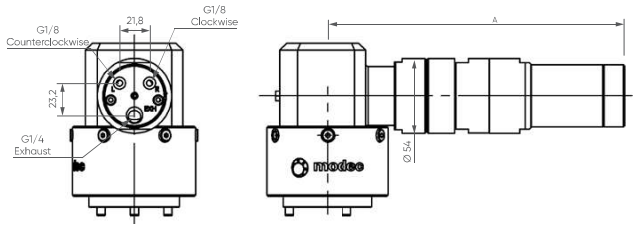
Data indicated in this table have an accuracy of +/- 5%

OPTIONS AVAILABLE FOR THIS MOTOR

Collected exhaust	■	■	■	■	■	■
ATEX certification		■			■	■
Lubrication free			■		■	
Kit start				■		■
Code	01	07	09	10	21	22

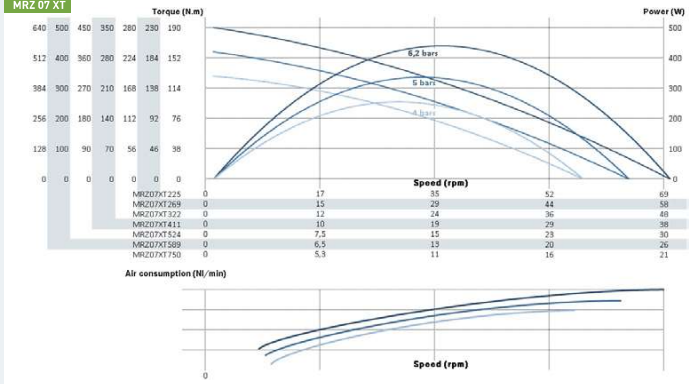
LAYOUT

MRZ 07

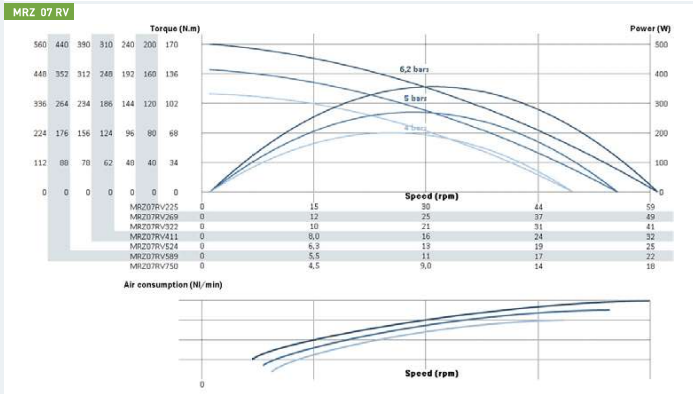


POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

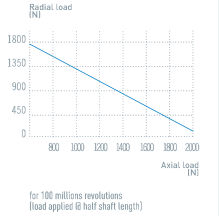
MRZ 07 XT



MRZ 07 RV



MAXIMUM RADIAL & AXIAL LOAD



NOTES

modec moteurs & solutions pneumatiques

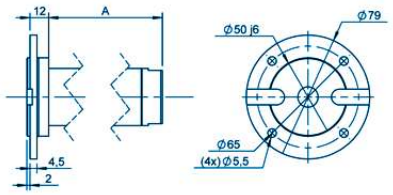
FLANGES & SHAFTS

Coupling the motor on your machine is as critical as choosing the right motor ! With Modec, no need to modify your machine to make it compliant with the motor. We offer a wide choice of flanges and shafts so that you can find the ones that match your need. In case you don't find the right one, we can design and manufacture specific flanges and shafts on request.

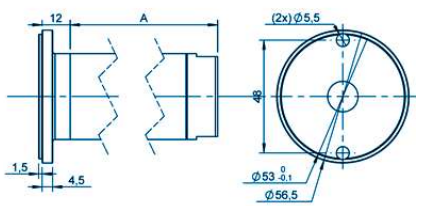
FLANGES & SHAFTS **GROUP I**

MTE 05 MTS 05

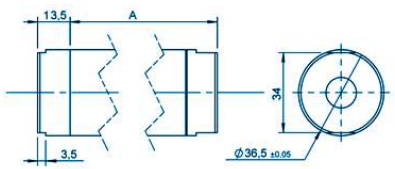
GROUP I FLANGE AA



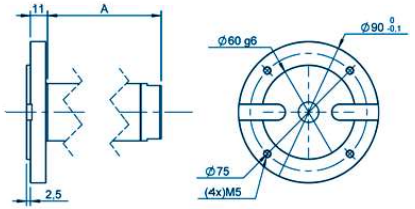
GROUP I FLANGE B



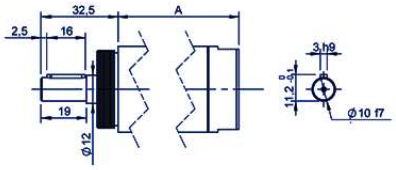
GROUP I FLANGE P



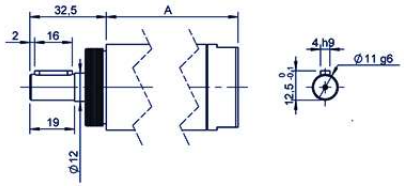
GROUP I FLANGE S - IEC63B14



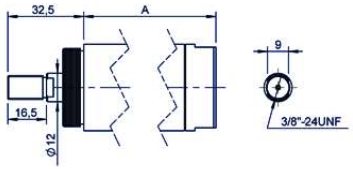
GROUP I SHAFT CL1 - KEYED Ø10



GROUP I SHAFT CL2 - KEYED Ø11 - IEC63B14



GROUP I SHAFT FI1 - THREADED 3/8'' 24UNF



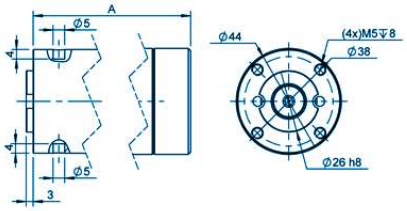
You didn't find your match ?

Contact us !

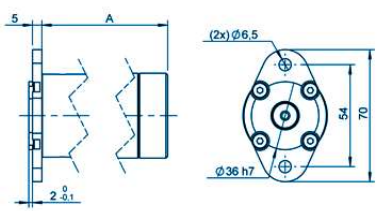
FLANGES & SHAFTS **GROUP II** (1/2)

MTE 07 MTS 07

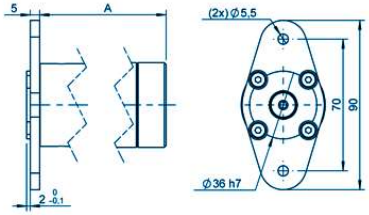
GROUP II FLANGE AA



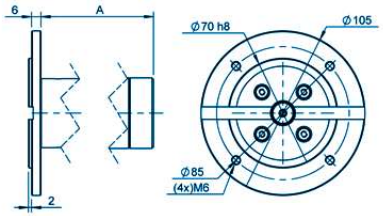
GROUP II FLANGE AB



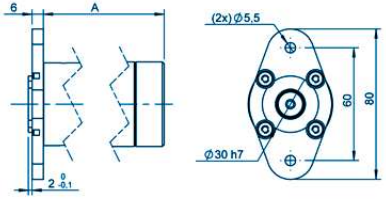
GROUP II FLANGE AC



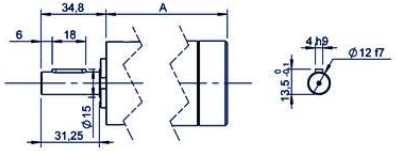
GROUP II FLANGE AD - IEC 71B14



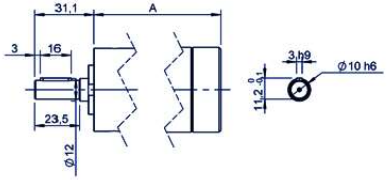
GROUP II FLANGE AE



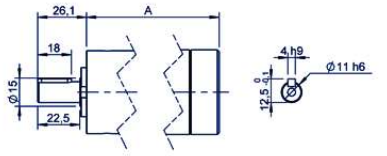
GROUP II SHAFT 001 - KEYED Ø12



GROUP II SHAFT 004 - KEYED Ø10



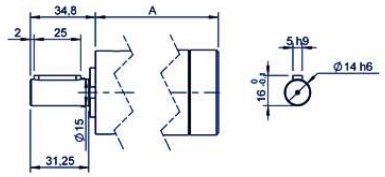
GROUP II SHAFT 006 - KEYED Ø11



SHAFTS **GROUP II** (2/2)

MTE 07 MTS 07

GROUP II SHAFT S01 - KEYED Ø14 - IEC 71B14



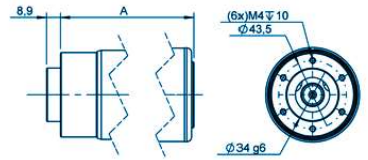
You didn't find your match ?

Contact us !

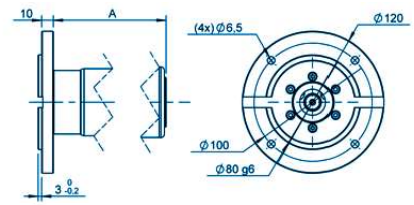
FLANGES & SHAFTS **GROUP III**

XTE 08 XTE 10 XTE 20 XTE 25

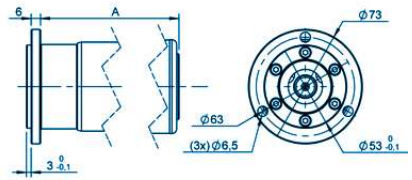
GROUP III FLANGE AA



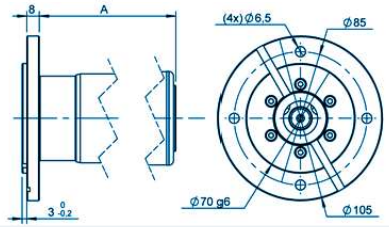
GROUP III FLANGE AB - IEC 80B14



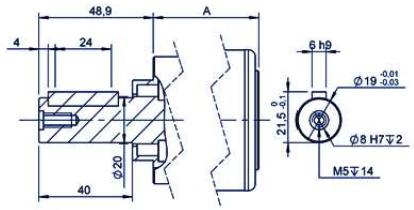
GROUP III FLANGE B



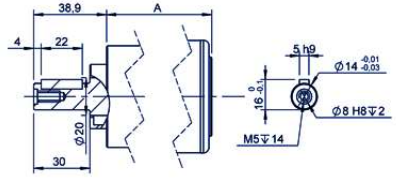
GROUP III FLANGE FJ - IEC 71B14



GROUP III SHAFT 001 - KEYED Ø19 -IEC 80B14



GROUP III SHAFT C25 - KEYED Ø14 -IEC 71B14



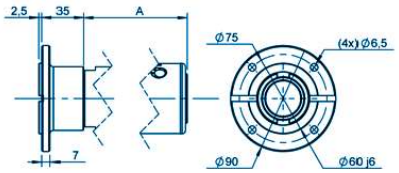
You didn't find your match ?

Contact us !

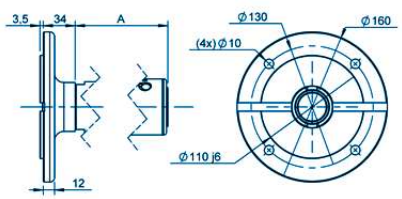
FLANGES **GROUP IV** (1/3)

XTH 05 | XTH 07 | XTS 08 | XTH 08 | XTS 10 | XTH 10 | XTS 20 | XTS 25

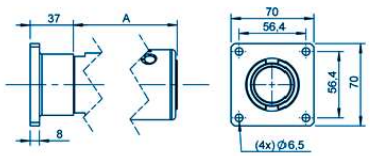
GROUP IV FLANGE AB - IEC63B14



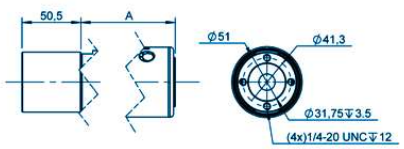
GROUP IV FLANGE AC - IEC71B5



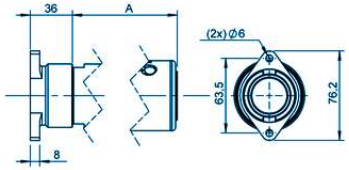
GROUP IV FLANGE AF



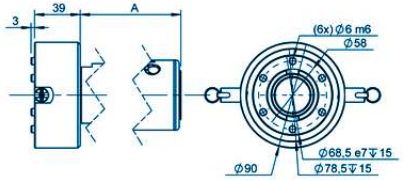
GROUP IV FLANGE AH



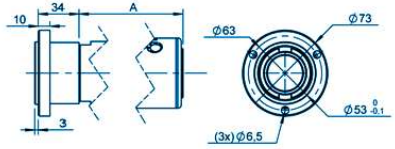
GROUP IV FLANGE AS



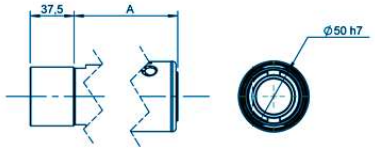
GROUP IV FLANGE AX - ARP



GROUP IV FLANGE B



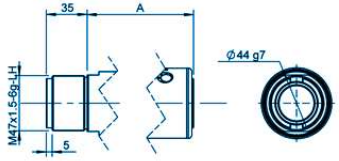
GROUP IV FLANGE BO



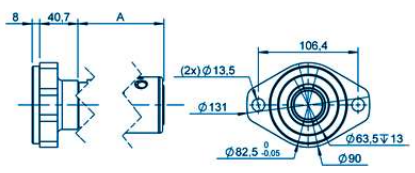
FLANGES **GROUP IV** (2/3)

XTH 05 | XTH 07 | XTS 08 | XTH 08 | XTS 10 | XTH 10 | XTS 20 | XTS 25

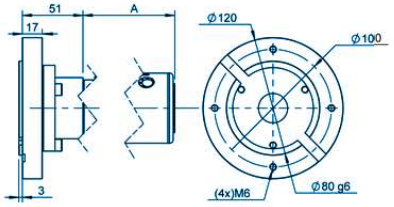
GROUP IV FLANGE F



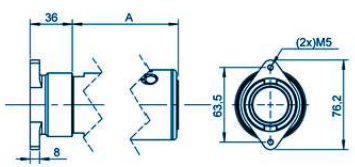
GROUP IV FLANGE FH



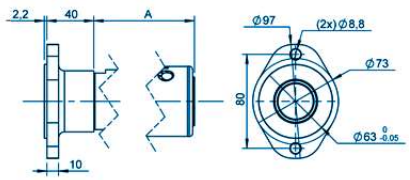
GROUP IV FLANGE FJ - IEC80B14



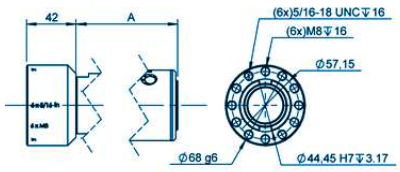
GROUP IV FLANGE J



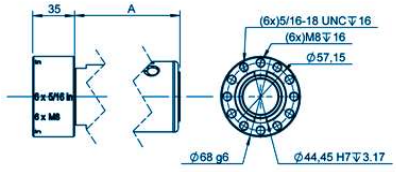
GROUP IV FLANGE L



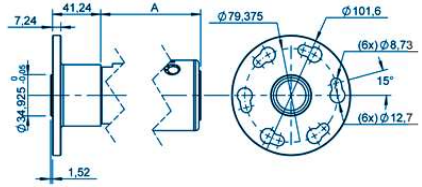
GROUP IV FLANGE M



GROUP IV FLANGE N



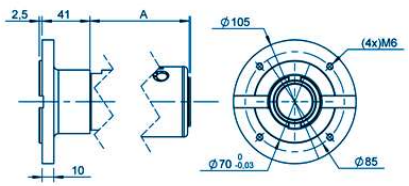
GROUP IV FLANGE Q



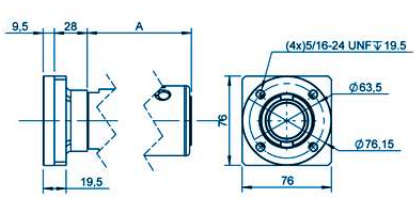
FLANGES GROUP IV (3/3)

XTH 05 | XTH 07 | XTS 08 | XTH 08 | XTS 10 | XTH 10 | XTS 20 | XTS 25

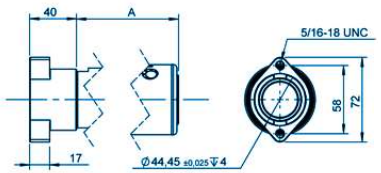
GROUP IV FLANGE R - IEC71B14



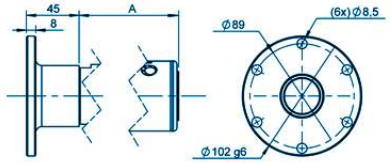
GROUP IV FLANGE S



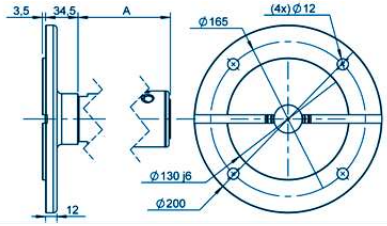
GROUP IV FLANGE U



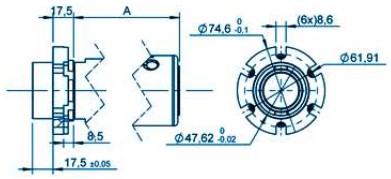
GROUP IV FLANGE V



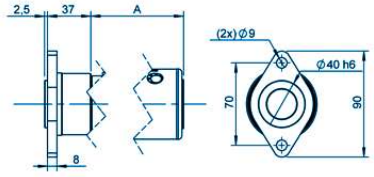
GROUP IV FLANGE W - IEC80B5



GROUP IV FLANGE Y



GROUP IV FLANGE Z



You didn't find your match ?

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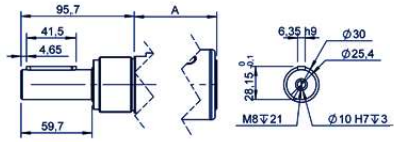
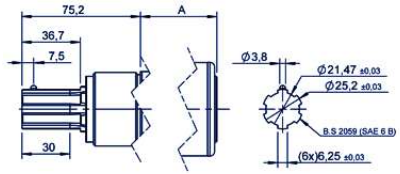
SHAFTS GROUP IV (1/3)

XTH 05 | XTH 07 | XTS 08 | XTH 08 | XTS 10 | XTH 10 | XTS 20 | XTS 25

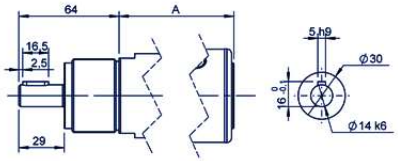
GROUP IV SHAFT 007 - KEYED Ø1''



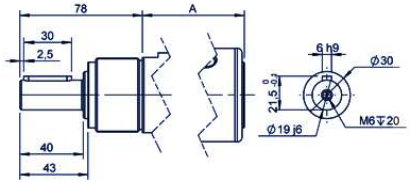
GROUP IV SHAFT 019 - SPLINED ARP



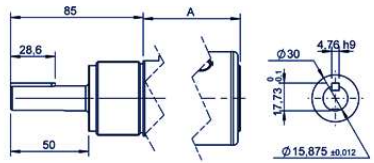
GROUP IV SHAFT C11 - KEYED Ø14 - IEC71B5 - IEC71B14



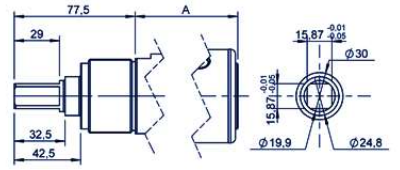
GROUP IV SHAFT C12 - KEYED Ø19 - IEC80B5 - IEC80B14



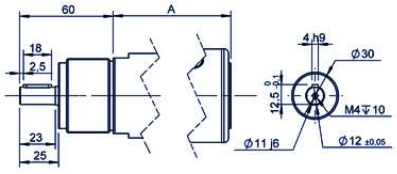
GROUP IV SHAFT C15 - KEYED Ø5/8''



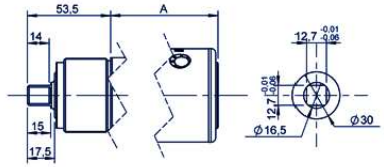
GROUP IV SHAFT C16 - SQUARE Ø5/8''



GROUP IV SHAFT C19 - KEYED Ø11 - IEC63B14



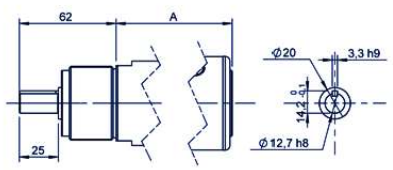
GROUP IV SHAFT CA1 - SQUARE Ø1/2''



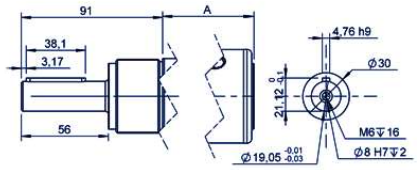
SHAFTS **GROUP IV** (2/3)

XTH 05 | XTH 07 | XTS 08 | XTH 08 | XTS 10 | XTH 10 | XTS 20 | XTS 25

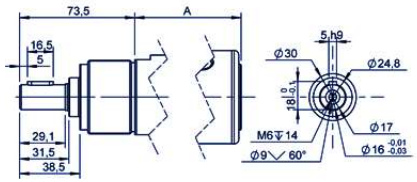
GROUP IV SHAFT CL1 - KEYED Ø1/2"



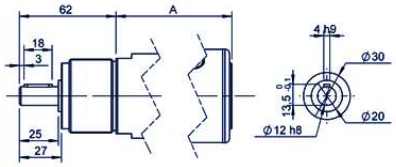
GROUP IV SHAFT CL2 - KEYED Ø3/4"



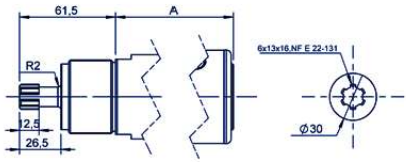
GROUP IV SHAFT CL6 - KEYED Ø16



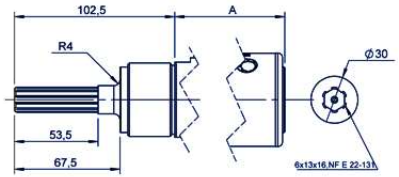
GROUP IV SHAFT CL9 - KEYED Ø12



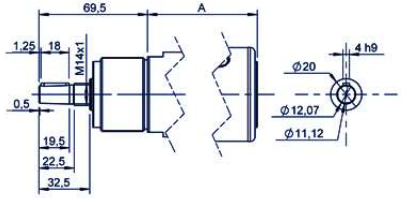
GROUP IV SHAFT CNC - SPLINED SHORT



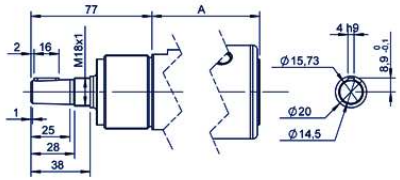
GROUP IV SHAFT CNL - SPLINED LONG



GROUP IV SHAFT CONICAL B12



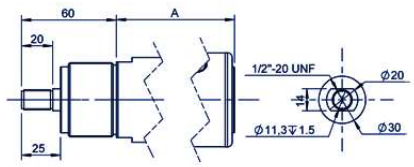
GROUP IV SHAFT CONICAL B16



SHAFTS **GROUP IV** (3/3)

XTH 05 | XTH 07 | XTS 08 | XTH 08 | XTS 10 | XTH 10 | XTS 20 | XTS 25

GROUP IV SHAFT FI1 - THREADED Ø1/2"



You didn't find your match ?

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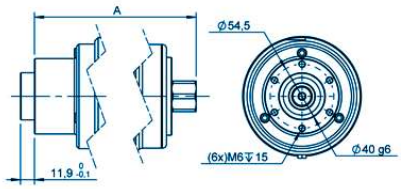
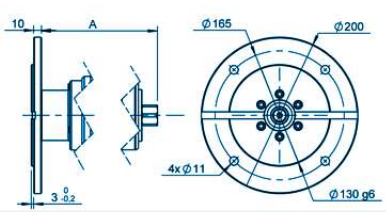
FLANGES & SHAFTS **GROUP V**

XTE 30

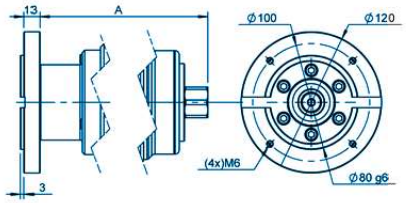
GROUP V FLANGE AA



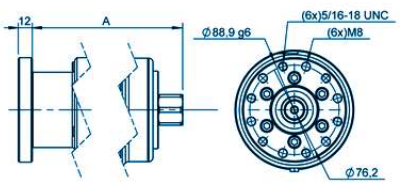
GROUP V FLANGE AB - IEC 80B5 - IEC 90B5



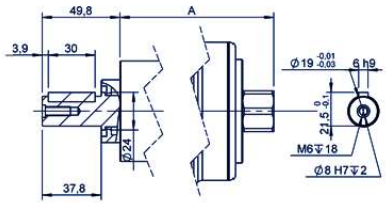
GROUP V FLANGE AC - IEC 80B14



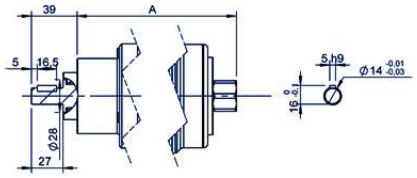
GROUP V FLANGE B



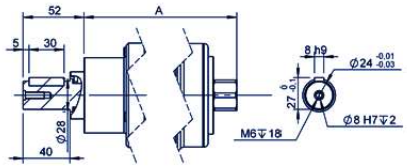
GROUP V SHAFT 001 - KEYED Ø19 -IEC 80B14 - IEC80B5



GROUP V SHAFT 002 - KEYED Ø14



GROUP V SHAFT CL6 - KEYED Ø24 -IEC 90B5



You didn't find your match ?

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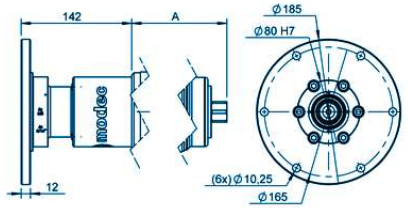
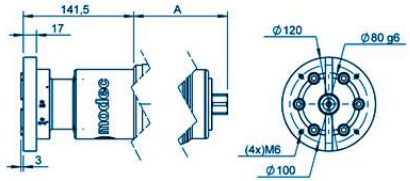
FLANGES **GROUP VI**

XTZ 08 XTZ 10 XTZ 20 XTZ 25 XTS 30

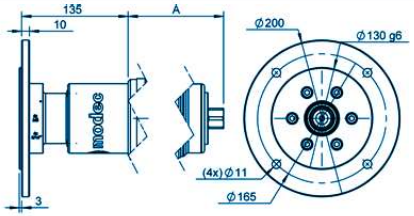
GROUP VI FLANGE AA



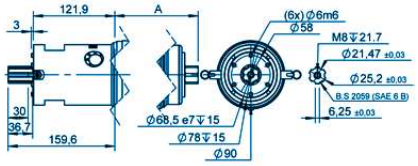
GROUP VI FLANGE AB - IEC80B14



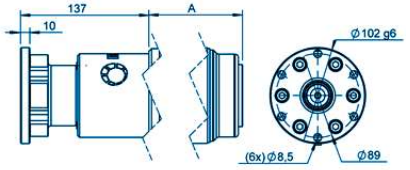
GROUP VI FLANGE AG - IEC80B5



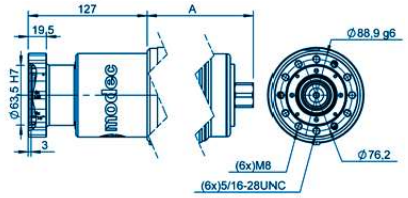
GROUP VI FLANGE AI WITH SHAFT CNW



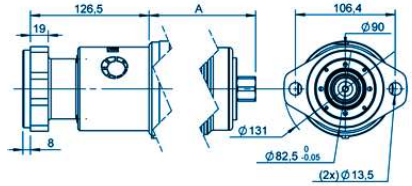
GROUP VI FLANGE AL



GROUP VI FLANGE B



GROUP VI FLANGE H



You didn't find your match ?

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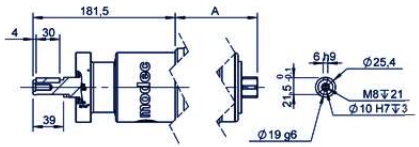
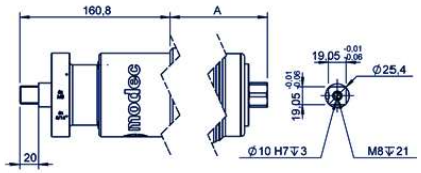
SHAFTS **GROUP VI**

XTZ 08 | XTZ 10 | XTZ 20 | XTZ 25 | XTS 30

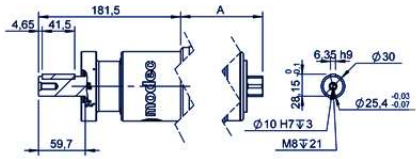
GROUP VI SHAFT 003 - KEYED Ø19 - IEC 80B14 - IEC 80B5



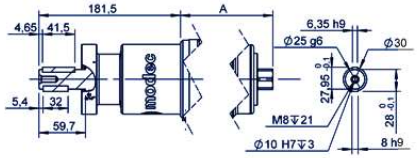
GROUP VI SHAFT CA1 - SQUARE 3/4''



GROUP VI SHAFT CL2 - KEYED Ø1''



GROUP VI SHAFT CL4 - KEYED Ø25



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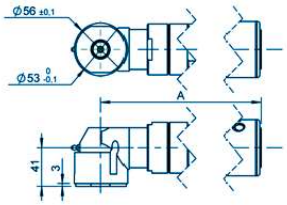
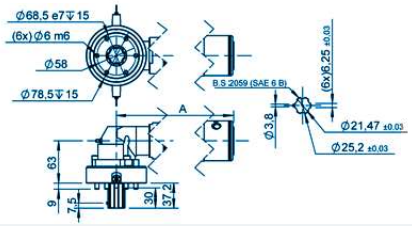
FLANGES **GROUP VII**

XRH 05 | XRH 07 | XRS 08 | XRS 10 | XRS 20 | XRS 25

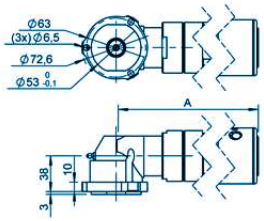
GROUP VII FLANGE AF



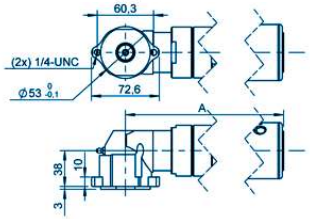
GROUP VII FLANGE AG WITH SHAFT 013



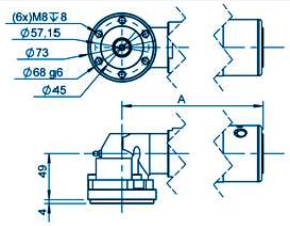
GROUP VII FLANGE B



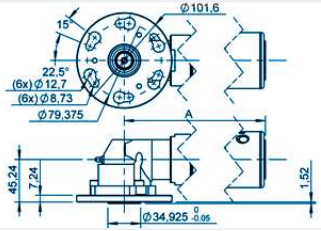
GROUP VII FLANGE E



GROUP VII FLANGE M



GROUP VII FLANGE Q



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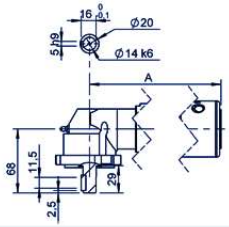
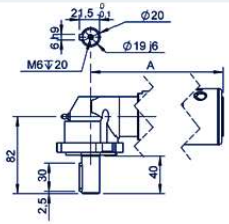
SHAFTS **GROUP VII** [1/2]

XRH 05 | XRH 07 | XRS 08 | XRS 10 | XRS 20 | XRS 25

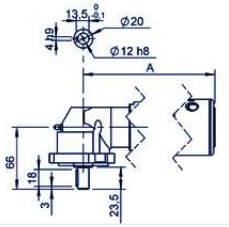
GROUP VII SHAFT 021 - KEYED Ø14



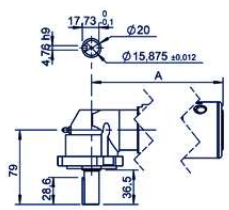
GROUP VII SHAFT C12 - KEYED Ø19



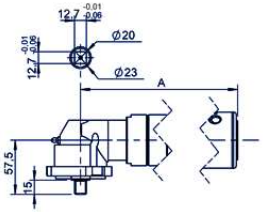
GROUP VII SHAFT C13 - KEYED Ø12



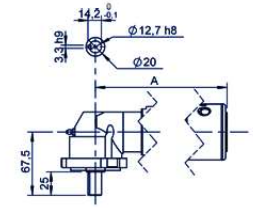
GROUP VII SHAFT C14 - KEYED Ø5/8''



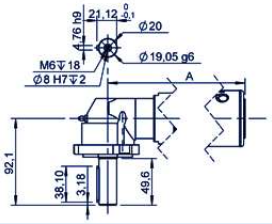
GROUP VII SHAFT CA1 - SQUARE 1/2''



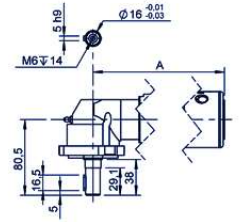
GROUP VII SHAFT CL1 - KEYED Ø1/2''



GROUP VII SHAFT CL2 - KEYED Ø3/4''



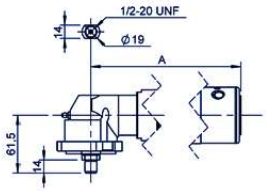
GROUP VII SHAFT CL6 - KEYED Ø16



SHAFTS **GROUP VII** [2/2]

XRH 05 | XRH 07 | XRS 08 | XRS 10 | XRS 20 | XRS 25

GROUP VII SHAFT FI1 - THREADED Ø1/2''



You didn't find your match ?

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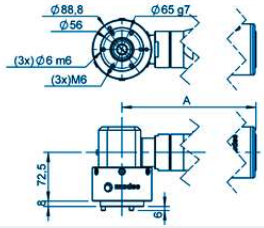
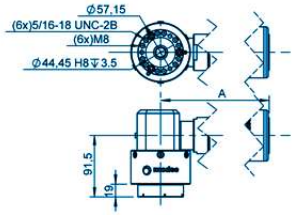
FLANGES **GROUP VIII**

XRZ 05 | XRZ 07 | XRH 08 | XRH 10 | XRH 20 | XRH 25

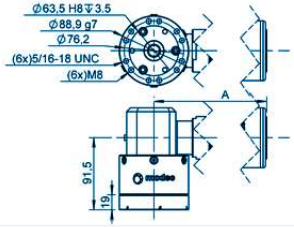
GROUP VIII FLANGE AA



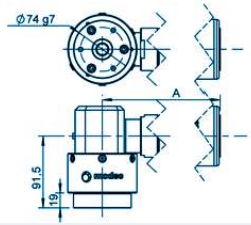
GROUP VIII FLANGE AB



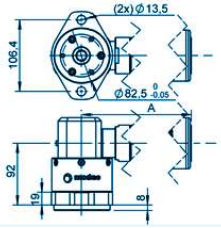
GROUP VIII FLANGE AC



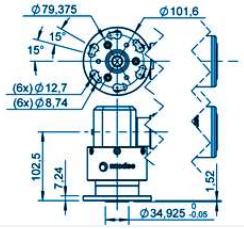
GROUP VIII FLANGE AD



GROUP VIII FLANGE AE



GROUP VIII FLANGE Q



You didn't find your match ?

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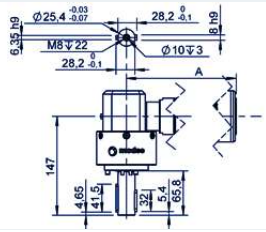
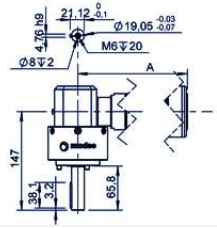
SHAFTS **GROUP VIII**

XRZ 05 | XRZ 07 | XRH 08 | XRH 10 | XRH 20 | XRH 25

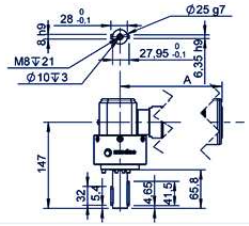
GROUP VIII SHAFT 001 - KEYED Ø1"



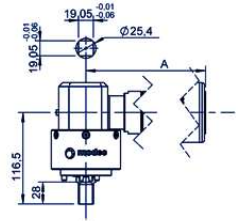
GROUP VIII SHAFT 002 - KEYED Ø3/4"



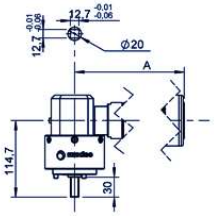
GROUP VIII SHAFT 003 - KEYED Ø25



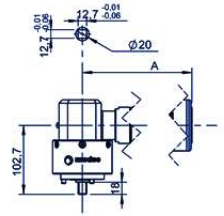
GROUP VIII SHAFT 004 - SQUARE 3/4"



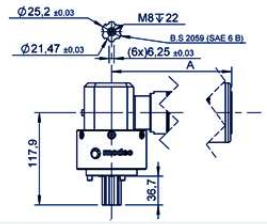
GROUP VIII SHAFT 005 - SQUARE 1/2" LONG



GROUP VIII SHAFT CA1 - SQUARE 1/2" SHORT



GROUP VIII SHAFT CNW - SPLINED



You didn't find your match ?

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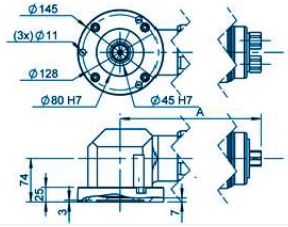
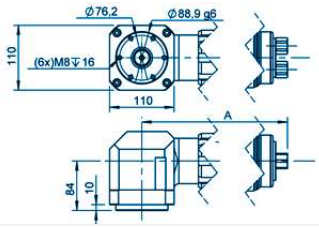
FLANGES & SHAFTS **GROUP IX**

XRZ 08 | XRZ 10 | XRZ 20 | XRZ 25 | XRS 30

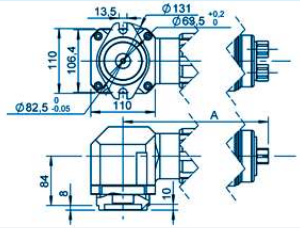
GROUP IX FLANGE A



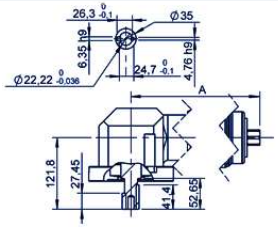
GROUP IX FLANGE B



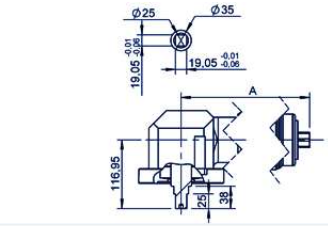
GROUP IX FLANGE H



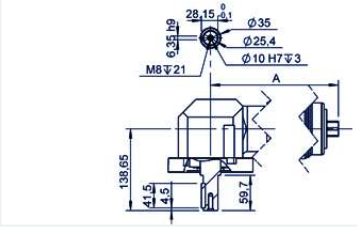
GROUP IX SHAFT 001 - KEYED Ø7/8''



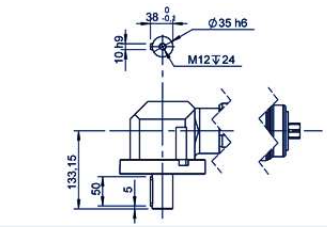
GROUP IX SHAFT 003 - KEYED Ø3/4''



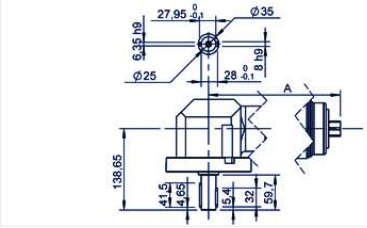
GROUP IX SHAFT CL2 - KEYED Ø1''



GROUP IX SHAFT CL3 - KEYED Ø35



GROUP IX SHAFT CL4 - KEYED Ø25



You didn't find your match ?

Contact us !

OPTIONS & ACCESSORIES

Modec offers a complete range of options and accessories required for an optimal performance of air motors and solutions.

Options are built into motors during manufacturing :

- Exhaust collectors
- ATEX certification
- Left/Right trigger (for reversible air motors only)
- « No lube kit » for oil free motors
- « Kit start » to ensure immediate start of the motor, even in difficult conditions
- Integrated speed control
- Stainless steel casing

Options are identified with the two last digits of the commercial reference. You will find on each product file a table indicating available options.

OPTIONS AVAILABLE FOR THIS MOTOR									
Collected exhaust	➡			➡	➡	➡			
ATEX certification		➡					➡	➡	➡
Left/Right switch*			➡				➡		
Lubrication free				➡				➡	
Kit start					➡				➡
Speed control**									
Inox						➡			
Code	01	02	03	09	10	11	12	13	14

* Reversible motors only ** Non reversible motors only

Accessories are complementary to motors and enable an optimal functioning of the complete system :

- Filtration, Regulation & Lubrication units (FRL)
- Safety Air Treatment Boxes (SAT Box)
- Air supply lubrication oil
- Motor control handles
- Filters & silencers
- Airflow controllers
- Motors maintenance kits
- Exhaust collector kits

OPTIONS
EXHAUST COLLECTORS

Exhaust collectors are to be mounted on the 10, 20, 25 & 30 series (other series air motors are always collected). They enable to collect exhaust in order to drive it towards a filter or silencer, or simply to bring it away from the working place.
Using an exhaust collector with a silencer may slightly reduce performance (30 series) or significantly increase it (10 and 20 series). See table p.181.

It will also increase the motor maximum diameter (see an example below for the "10" series).

Series	Diameter (mm)	Connection
10	87	G3/4
20	103	G3/4
25	120	G3/4
30	130	G3/4

Exhaust collectors can also be assembled on motors after manufacturing, as accessories (see chapter "Accessories" hereafter).

ATEX CERTIFICATION

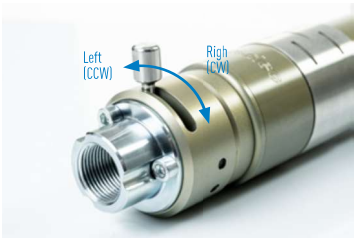
All **modec** air motors can be certified ATEX on request.

See chapter 7. Certifications in the General information section (page 18)

ATEX II 2 G D
Ex h IIC T6...T4 Gb
Ex h IIIC T80°C...T135 Db

LEFT/RIGHT TRIGGER

Available for reversible air motors only, this option allows to control the rotation direction directly on the motor with a simple trigger. No need for 5/3 distribution valve and separate air supply hoses. Very convenient for motors installed on machines where a manual rotation change is required.



LUBRICATION FREE

Oil free motors are specially designed to work without adding oil in the air supply. This can be required in specific applications (clean rooms for example).

In that case, air quality, dryness and cleanness is even more critical to a good functioning and lifespan of the motor. One shall use adequate filtering units and check filters regularly. No lube air motors should not be used unloaded at free speed.

When motors are not in use, make sure that they are stored in a dry, clean and ventilated environment.

« KIT START »

This option is typically required for applications where the motor is not frequently used and where it is important that motors will start immediately even after a long idle period. The kit start ensures that the vanes will always be out of the rotor notches and consequently that the motor will immediately start up when air comes in.

STAINLESS STEEL MOTORS

Available for most of our models, that option increases our motors robustness and resistance to wet and corrosive environments.

INTEGRATED SPEED CONTROL

The integrated speed control system enables to adjust the output shaft rotation speed simply by rotating the exhaust silencer. No need for external air flow regulator, it is a simple and efficient way to control speed. Available for « 10 » and « 20» series non reversible air motors.

ACCESSORIES
FILTERING, PRESSURE REGULATION AND LUBRICATION UNITS (FRL)

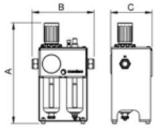
The Filtering, pressure Regulation and Lubrication unit (FRL) is a mandatory element for a good air motor functioning, performance, service life and control. It ensures fluid (compressed air or inert gas) filtering, drying and lubrication so that the motor will be fed with a « clean » gas. It also controls the motor performances through air pressure.

The FRL unit should be installed less than 5 m upstream from the motor and should be properly dimensioned so that the flow is consistent with the motor's consumption. Make sure that pipes and fittings are also large enough for the airflow required.

modec offers a complete range of compact and sturdy FRL, adapted to industrial environment and easy to connect.

Self-relieving regulator. Lubrication with selective oil fog. Metal bowl with polypropylene oil level viewing window. Automatic oil refilling pressurized system

Recommended oil type : MODEC CO-16 oil (see hereafter)



Reference	AC106	AC107	AC108
Max inlet pressure	16 bars	16 bars	16 bars
Pressure gauge	0 / 10 bars	0 / 10 bars	0 / 10 bars
Controlled pressure	0,5 / 8 bars	0,5 / 8 bars	0,5 / 8 bars
Ambient temperature	-10°C/ +50°C	-10°C/ +50°C	-10°C/ +50°C
Oil bowl capacity	40 cm³	80 cm³	181 cm³
Filtration	5 µm	5 µm	5 µm
Purge system	Semi-auto	Semi-auto	Semi-auto
Connection	G ½	G ½	G ¾
Dimensions (A x B x C)	240 x 145 x 100 mm	271 x 167 x 112 mm	342 x 210 x 142 mm
Weight (empty)	1,5 kg	2,9 kg	3,85 kg

SAFETY AIR TREATMENT BOX (SAT BOX)

Safety

The Safety Air Treatment Box (SAT Box) is a safety device designed to protect people & material against damages and accidents. Placed upstream from the pneumatic actuators (motors, pistons or any portable pneumatic tools) the SAT Box provides numerous important safety features:

- **Emergency kill switch**
- **Key safety lock (optional)**
- **Downstream automatic air-bleed**
- **Automatic switch off when air pressure drop is detected**

As soon as the emergency kill switch is hit, the SAT Box ensures an instantaneous air bleed in the downstream circuit so that no residual energy may create an accidental motion after the stop.

In case air pressure drops below 2 bars, the SAT Box automatically shuts off and bleeds downstream circuit. One needs to press the "start" button again to restart flow. This prevents any unexpected start in case one person stops and restarts the compressor without information to the user.

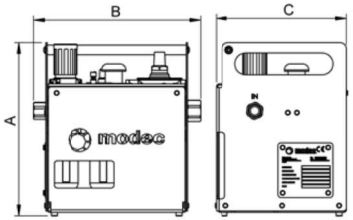
All these safety features are energized by air pressure, without any other source of energy required. This makes it possible to have it ATEX certified on request.

Air treatment

The SAT Box also contains a FRL unit (Filtration, pressure Regulation and Filtration). Refer to the FRL description above.

Easy control

The SAT Box can be equipped as an option with several remote control devices for an easy and efficient use (pedal, handle or emergency kill switch placed close to the operator).



All components are protected with a stable and sturdy metallic box designed for a heavy duty workshops and worksites use.

Reference	AC118	AC126
Motors series	05, 07, 08, 10, 20	25, 30
FRL type	AC107	AC108
Emergency kill switch	Yes	Yes
Automatic air bleed	Yes	Yes
Pressure gauge	0-10 bars	0-10 bars
Filtration	5 µm	5 µm
Oil bowl capacity	80 cm³	181 cm³
Controlled pressure	2 - 8 bars	2 - 8 bars
Ambient temperature	-10°C/+50°C	-10°C/+50°C
Connection	In G ½ - Out G¾	In G¾ - Out G¾
Dimensions (mm) A x B x C	277 x 216 x 286 mm	304 x 216 x 348 mm
Weight (empty)	7,6 kg	11,7 kg
Option :		
Pedal remote control	AC119	AC127
Handle remote control	AC120	AC128
Remote Emergency Kill Switch	AC125	AC129
Remote pedal and EKS	AC121	AC130
Remote Handle and EKS	AC122	AC131

PNEUMATIC OIL modec CO-16

Lubricating oil specially selected for **modec** air motors and actuators

Synthetic oil

Kinematic viscosity at 40°C	: 22cSt
Viscosity index	: 145
Voluminal mass	: 824kg/m3
Flash point	: +210°C
Pour point	: -55°C
Temperature of use	: -55°C/130°C
Reference	: AC149

MOTOR CONTROL HANDLES

Safety handles

Safety handles change your motor into a portable tool with a manual "on/off" control. It guarantees operator's safety thanks to a specific trigger that prevents any accidental start, and an automatic return system that ensures a complete stop of the air flow as soon as the handle is released.

This handle exist in different models depending on the motor it is designed for (power, reversible or non-reversible). It is delivered with the interface parts required for an easy assembly to the motor.

Progressive control handle

The progressive control handle enables an efficient, ergonomic and safe control of the motor air supply, and consequently of the motor speed. It is particularly suited to applications requiring constant speed control and adaptation.

Safe : The progressive control handle shuts off automatically as soon as the operator releases it.

Ergonomic : It works like a motorbike throttle grip, it is intuitive and smooth.

Versatile : It can be assembled on the "08", "10", "20", "25" & "30" series, with or without safety handle.

Left / Right switch

This simple "Left / Right" (or "CCW / CW") lever placed in the back of the motor allows a direct rotation direction control. No need for pipes, fittings and 5/3 distribution valve anymore.

Series	Safety handles	Progressive control handles	Left / Right switch
08 XT	AC415	AC417	N/A
08 RV	AC416	AC418	AC429
10 XT	AC406	AC400	N/A
10 RV	AC404	AC408	AC430
20 XT	AC406	AC400	N/A
20 RV	AC403	AC409	AC431
25 XT	AC412	AC407	N/A
25 RV	AC414	AC410	AC432
30 XT	AC412	AC407	N/A
30 RV	AC414	AC410	AC432
Assembly on a safety handle	N/A	AC400	N/A
SAT Box remote control handle	AC405	N/A	N/A

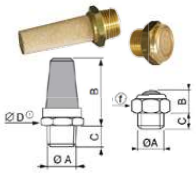
FILTERS & SILENCERS

1• STANDARD EXHAUST SILENCERS

Extremely compact, these metallic or plastic silencers significantly reduce exhaust noise with a minimal impact on the motor overall size.
They also prevent any external parts or impurities from getting inside the motor through exhaust vent.

IMPORTANT : Make sure that the silencer maximum acceptable flow is consistent with the maximal air output flow of the motor in order to avoid impact on the motor performances (torque & speed).

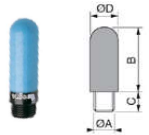
• METALLIC SILENCERS



Reference	AC169	AC168	AC180	AC181	AC164	AC182
Operating pressure	0 → 10 bars					
Ambient temperature	- 10°C → + 80°C					
Connection (ØA)	G⅛	G¼	G¼	G⅜	G½	G¾
Dimensions (B x C x ØD) (mm)	10 x 6 x 13	22,4 x 5,6 x 13	41,6 x 8,4 x 16	49,2 x 8,8 x 24	54.6 x 11.4 x 27	82,3 x 12,7 x 36
Weight	6 g	10 g	30 g	30 g	70 g	300 g
Suitable for motors	Refer to table p.181					

Mini metallic silencer (AC169): Stainless steel body, Nickel plated brass connection piece .
Other metallic silencers : Porous bronze body, brass connection piece.

• PLASTIC SILENCERS



Reference	AC166	AC150	AC183	AC184	AC152	AC153
Operating pressure	0 → 10 bars					
Ambient temperature	- 10°C → + 80°C					
Connection (ØA)	G⅛	G¼	G⅜	G½	G¾	G1
Dimensions (B x C x ØD) (mm)	27 x 6 x 13	34 x 7 x 15	55 x 11 x 18	62 x 12 x 23	113 x 16 x 38	141 x 20 x 48
Weight	2 g	4 g	6 g	10 g	40 g	65 g
Suitable for motors	Refer to table p.181					

Polyethylene body, technical polymer connection piece.

OPTIONS & ACCESSORIES

2• HEAVY DUTY EXHAUST SILENCERS

These silencers softly exhaust air and disperse it over a 360° pattern. It won't clog up even in harsh environment. Made of a corrosion-resistant metal, it can withstand shock and continuous, heavy duty use under many conditions.

Reference	AC167	AC154	AC155	AC158	AC156	AC157
Operating pressure	0 → 14 bars					
Ambient temperature	- 20°C → + 110°C					
Connection	G1/8	G1/4	G3/8	G1/2	G3/4	G1
Dimensions (A x B x ØC (mm))	35 x 31 x 11	44 x 39 x 14	57 x 51 x 18	69 x 61 x 22	80 x 71 x 27	99 x 88 x 33
Weight	9 g	23 g	36 g	68 g	122 g	227 g
Suitable for motors	Refer to table p.181					

Zinc-plated steel dichromate body, brass sieve

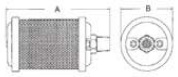
3• HIGH FLOW EXHAUST MUFFLER

High flow exhaust muffler generate very minimal pressure drop while significantly reducing noise. They definitively are the best solution in terms of "Noise reduction / Pressure drop" ratio.
85% Noise Reduction

94% Flow Factor

Constructed with a unique expansion chamber, completely free of obstruction, exhaust air softly flows to the atmosphere without noise and oil fog, providing a clean, comfortable and productive work environment.

Composed entirely of corrosion-resistant material for long life and maintenance-free performance, units have a hex head, making it easy to attach to exhaust ports. They should be mounted in a protective position, free from excessive vibrations.



Reference	AC158	AC159	AC160
Operating pressure	0 → 10 bars		
Ambient temperature	- 40°C → + 145°C		
Connection	G1/2	G3/4	G1
Dimensions (A x ØB) (mm)	152 x 80	183 x 86	222 x 98
Weight	340	450 g	590 g
Suitable for motors	Refer to table p.181		

4• EXHAUST FILTERS & SILENCERS

Designed to reduce both exhaust noise level and pollution by eliminating solid particles and oil aerosols, these silencers must be assembled in vertical position (slope : 15° max.).

Pressure drops due to clogging of cartridge must not exceed 0,5 bar, in which case replace cartridge.

Condensates are automatically drained once they exceed a given level. The drain may however be activated manually by turning the knurled switch (1/4 turn).

Aluminum housing and polypropylene (PP) bowl.
Filter element : fibrous texture bonded by a plastic resin.
Sealed by a rubber gasket.

Reference	AC165	AC161	AC162
Operating pressure	0 → 16 bars		
Ambient temperature	- 5°C → + 50°C		
Connection (ØG)	G1/2	G3/4	G1
Dimensions (A x B x ØC) (mm)	12 x180 x 90	12 x180 x 90	15 x250 x 110
Weight	600	560 g	1070 g
Suitable for motors	Refer to table p.181		

5• AIR MOTORS / SILENCERS CORRESPONDENCE TABLE AND POWER IMPACT

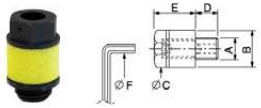
		05		07		08		10XT	10RV		20 XT	20 RV		25		30	
		Exhaust	Inlet	Exhaust	Inlet	Exhaust	Inlet	Exhaust	Exhaust	Inlet	Exhaust	Exhaust	Inlet	Exhaust	Inlet	Exhaust	Inlet
	Size	G1/8	G1/8	G1/4	G1/8	G3/8	G1/4	G3/4	G3/4	G3/8	G3/4	G3/4	G3/8	G3/4	G3/8	G3/4	G1/2
Plastic	Reference	AC166	AC166	AC150	AC166	AC183	AC150	AC152	AC152	AC183	AC152	AC152	AC183	AC239 + AC153	AC183	AC239 + AC153	AC151
	Power impact	-14%		-10%		-10%		0	0		15%	20%		0		-3%	
Metallic	Reference	AC168 OR AC169	AC168 OR AC169	AC180	AC168	AC181	AC180	AC182	AC182	AC181	AC182	AC182	AC181	AC182	AC181	AC182	AC164
	Power impact	-14%		-10%		-10%		0	0		15%	20%		0		0	
Heavy duty	Reference	AC167	AC167	AC154	AC167	AC155	AC154	AC156	AC156	AC155	AC156	AC156	AC155	AC239 + AC157	AC155	AC239 + AC157	AC184
	Power impact	-14%		-10%		-10%		0	0		15%	20%		0		0	
High flow exhaust muffler	Reference							AC211 + AC158	AC211 + AC158		AC159	AC159		AC239 + AC160		AC239 + AC160	
	Power impact							0	0		15%	20%		0		-6%	
Filter	Reference							AC211 + AC165	AC211 + AC165		AC161	AC161		AC239 + AC162		AC239 + AC162	
	Power impact							0	0		0	0					

AIRFLOW CONTROLLERS

1• SPEED CONTROL MUFFLERS

The Polyethylene Speed Control Muffler is designed to adjust the pressure gap between air input and output of the motor by controlling the low end of the flow range. In that way, input pressure remains unchanged and there is no impact on the loaded starting torque, although the torque and speed at max power are reduced. It also reduces decibel levels to an OSHA approved level.

It can be used with air or filtered inert gases, lubricated or not.



Reference	AC170	AC171	AC172	AC173 +AC211
Operating pressure	0 → 10 bars			
Ambient temperature	- 10°C → + 80°C			
Connection (ØA)	G1/8	G1/4	G3/8	G1/2
Dimensions (B x C x D x E x F (mm))	15 x 13 x 6 x 14.5 x 2.5	18 x 15 x 7 x 22 x 4	24 x 20 x 8 x 30x 6	30 x25 x 10 x 40 x 8
Weight	5g	10 g	30 g	50 g
Suitable for motors	« 05 »	« 07 »	« 08 »	« 10 », « 20 », « 25 », « 30 »

Its body is made of highly versatile and cost-effective nylon. The adjusting screw is made of high tensile steel and is coated with electroplated zinc.

2• IN-LINE FLOW REGULATORS

In-line flow regulators control the motor air supply flow and consequently its rotation speed. They are particularly compact and easy to install either on the air motor inlet port or on the air supply pipe. They can also be used on the exhaust port.

Aluminum body
In-line flow regulators come with appropriate fittings for assembly on air motors inlet ports.

Reference	AC186	AC187	AC188	AC189	AC190	AC191	AC192
Operating pressure	0 → 17 bars						
Ambient temperature	-40°C - +120°C						
Air motor inlet connection	G1/8"	G1/4"	G1/4"	G3/4"	G3/8"	G3/8"	G1/2"
Air supply connection	G1/8"	G1/4"	G1/4"	G3/8"	G3/8"	G1/2"	G1/2"
Dimension (A x B)	50,8 x 20,6	64,8 x 26,9	64,8 x 26,9	73,4 x 31,8	73,4 x 31,8	82,6 x 41,4	82,6 x 41,4
Weight	5g	10g	10g	15g	15g	25g	25g
Suitable for motors	"05"	"07"	"08"	"10XT" "20XT"	"10RV" "20RV"	"25"	"30"

MAINTENANCE KITS

Maintenance kits contain two sets of parts required for one regular motor maintenance (refer to chapter 6 "Air motors storage & maintenance" in the first part of this catalogue). With one kit, you can perform two maintenance operations.

Maintenance kits come with an instruction notice and video tutorials are available on our **You Tube channel.**

Reference	05	07	08	10	20	25	30
Standard	AC300	AC301	AC302	XT : AC303 RV : AC308	AC304	AC305	AC306
Lube free	AC310	AC311	AC312	XT : AC313 RV : AC318	AC314	AC315	AC316
Kit start	AC320	AC321	AC322	XT : AC323 RV : AC328	AC324	AC325	AC326

EXHAUST COLLECTOR KITS

Exhaust collector kits can be easily assembled on 10, 20, 25 & 30 series motors and allow to use silencers, filters, airflow controllers, or simply a pipe to bring exhaust away from the working place.

Using an exhaust collector with a silencer may slightly reduce performance (30 series) or significantly increase it (10 and 20 series). See table p.180

It will also increase the motor maximum diameter (see table p.176.).

Reference	AC340	AC341	AC342	AC343
Diameter (mm)	87	103	120	130
Connection	G3/4	G3/4	G3/4	G3/4
Air motor series	10	20	25	30

SPECIAL PRODUCTS & TOOLS

NUT RUNNERS

All our motors can be used as nut runners by using the stall torque as a maximum torque that can be set by simply adjusting air pressure.

Just refer to the "NR" products type data sheet in each series and families.

NR products type are made of a handle, a motor and a right angle head which make them a perfect, safe and ergonomic bolting tool, with a power range from 400 W ("08" series) to 3200 W ("30" series) and a bolting torque that can reach up to 1000 Nm.

It is important to note that these nut runners cannot be used as precision tools. The accuracy of the torque values indicated is +/-5%.

TAPPING MACHINES

All our motors can also be used as tapping machines in their NTxxRV type.

We have designed a specific range of tapping machines with an appropriate safety handle and rotation control. We have specific shafts designed for tappers.

Refer to the TRS08 product data sheet on page 70.

SPECIAL MOTORS

Flexibility, Expertize and Innovation are our main strengths. We regularly design special motors on customer request for specific applications, and we love that !

Submarine stainless steel air motor

High speed motor for deburring / machining

Special shape & dimension air motor

Air fail brake motor

Whether it is submarine air motors, motors with air fail brakes, torque limiters or special flanges and shafts, we will answer your specific request quickly and precisely. Just ask us!

Don't hesitate to contact us

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