AIR MOTORS CATALOGUE

modec
moteurs & solutions pneumatiques

05 SERIE

MAX POWER
300 W
MAX TORQUE
370 Nm

"05" series air motors are **the lightest and most compact.**

With a 300W power in a 113 x 36,5 mm cylinder weighting half a kilogram only, **these motors fit easily in a machine.**

Like any of our motors, power and torque are easily controlable by simply adjusting air supply pressure, which allows to use them "at stall" without any additional precaution.

This makes them an ideal tool for cap screwing on bottling lines for example.

+ 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 "05" series	AC300
	Maintenance kit for lube free "05" series	AC310
	Maintenance kit for kit start "05" series	AC320
modec Oil Co-16		AC149
Filters and silencers		
	Mini metallic silencer	AC169
	Metallic standard exhaust silencer	AC168
	Plastic standard exhaust silencer	AC166
	Heavy duty exhaust silencer	AC167
	Speed control muffler	AC170
	High flow air muffler	AC158
	Exhaust silencer filter	AC165

CONNECTION AND LUBRICATION

Ø	Min. fittings Ø		Min. pipe Ø		Lubrification (6,2 bars)
	In	Out	In	Out	
	5 mm / 0,2 In	5 mm / 0,2 In	6 mm / 0,2 In	6 mm / 0,2 In	2 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 05
POWER 300 W

MTE 05

M	T	E	0	5	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*

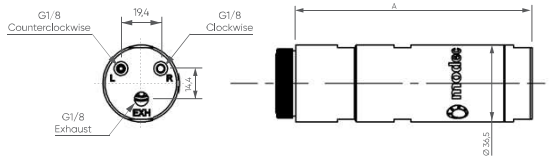
OPTIONS AVAILABLE FOR THIS MOTOR

Collected exhaust*	■	■	■	■	■	■	■	■	■	■	■	■
ATEX certification		■				■	■	■			■	■
Lubrication free			■			■			■		■	
Kit start				■			■			■		■
Stainless steel					■			■	■	■	■	■
Code	01	07	09	10	11	21	22	23	27	28	36	37

** Exhaust is always collected on "05" series air motors*

LAYOUT

MTE 05



PERFORMANCES

MTE 05 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)
MTE 05 XT 001	1	6,2 bars	10000	20000	0,28	0,56	0,49	300	500	113	36,5	0,5
		5 bars	9400	18800	0,24	0,44	0,39	230	400			
		4 bars	8400	16800	0,20	0,33	0,29	180	300			

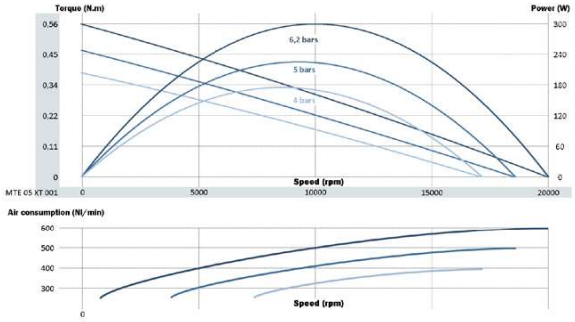
MTE 05 RV

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)
MTE 05 RV 001	1	6,2 bars	11400	22800	0,24	0,44	0,28	300	500	113	36,5	0,5
		5 bars	10400	20800	0,20	0,33	0,21	220	400			
		4 bars	9500	19000	0,17	0,22	0,14	170	300			

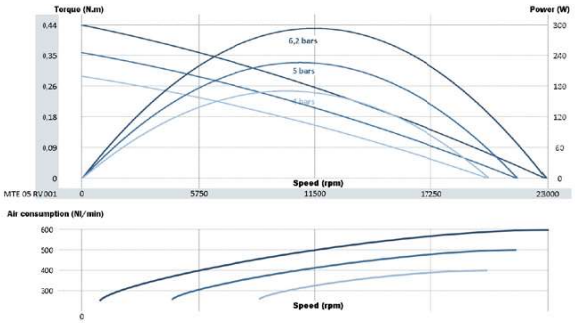
Data indicated in this table have an accuracy of +/- 5%

POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

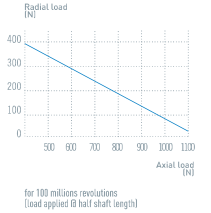
MTE 05 XT



MTE 05 RV



MAXIMUM RADIAL & AXIAL LOAD



NOTES

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MOTOR MTS 05
POWER 300 W

MTS 05

MTS	05	XX	XXX	XXX	–	XX

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*

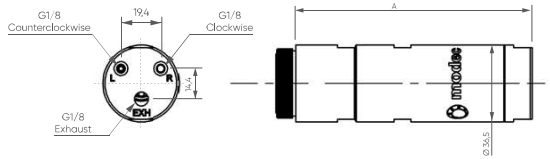
OPTIONS AVAILABLE FOR THIS MOTOR

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

** Exhaust is always collected on "05" series air motors*

LAYOUT

MTS 05



PERFORMANCES

MTS 05 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)
MTS 05 XT 004	004	6,2 bars	2507	5014	1,1	2,1	1,9	299	500	113	36,5	0,7
		5 bars	2314	4629	0,9	1,8	1,6	226	400			
		4 bars	2141	4281	0,8	1,5	1,3	174	300			
MTS 05 XT 009	009	6,2 bars	1170	2340	2,4	4,6	4,0	299	500	113	36,5	0,7
		5 bars	1080	2160	2,0	3,8	3,3	226	400			
		4 bars	999	1998	1,7	3,1	2,7	174	300			
MTS 05 XT 018	018	6,2 bars	597	1194	4,8	8,9	7,9	299	500	113	36,5	0,7
		5 bars	551	1102	3,9	7,4	6,5	226	400			
		4 bars	510	1019	3,3	6,1	5,4	174	300			
MTS 05 XT 038	038	6,2 bars	279	557	10	19	17	299	500	113	36,5	0,7
		5 bars	257	514	8,4	16	14	226	400			
		4 bars	238	476	7,0	13	11	174	300			
MTS 05 XT 081	081	6,2 bars	130	260	22	41	36	299	500	113	36,5	0,7
		5 bars	120	240	18	34	30	226	400			
		4 bars	111	222	15	28	25	174	300			

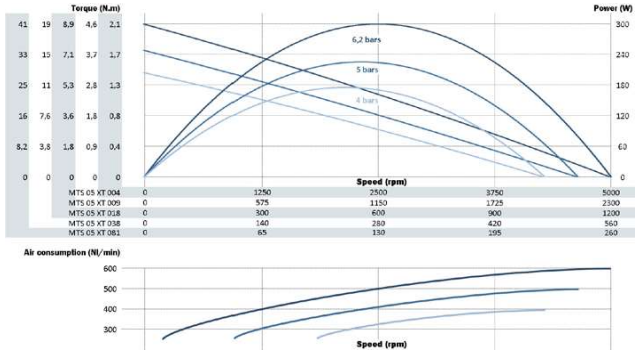
MTS 05 RV

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)
MTS 05 RV 004	004	6,2 bars	2353	4706	1,2	2,0	1,3	294	500	113	36,5	0,7
		5 bars	2199	4397	1,0	1,7	1,0	226	400			
		4 bars	2044	4089	0,8	1,3	0,8	173	300			
MTS 05 RV 009	009	6,2 bars	1098	2196	2,6	4,3	2,7	294	500	113	36,5	0,7
		5 bars	1026	2052	2,1	3,6	2,2	226	400			
		4 bars	954	1908	1,7	2,9	1,8	173	300			
MTS 05 RV 018	018	6,2 bars	560	1120	5,0	8,5	5,3	294	500	113	36,5	0,7
		5 bars	523	1047	4,1	7,0	4,3	226	400			
		4 bars	487	973	3,4	5,7	3,5	173	300			
MTS 05 RV 038	038	6,2 bars	261	523	11	18	11	294	500	113	36,5	0,7
		5 bars	244	489	8,8	15	9,3	226	400			
		4 bars	227	454	7,3	12	7,5	173	300			
MTS 05 RV 081	081	6,2 bars	122	244	23	39	24	294	500	113	36,5	0,7
		5 bars	114	228	19	32	20	226	400			
		4 bars	106	212	16	26	16	173	300			

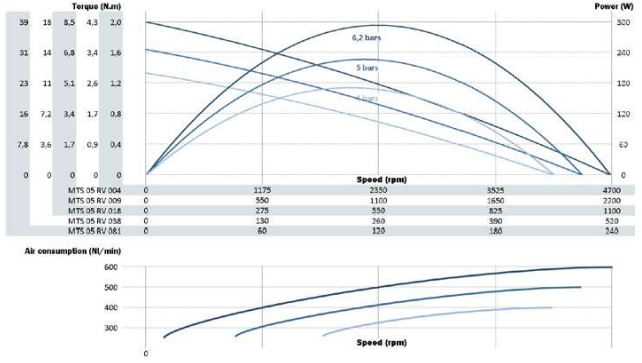
Data indicated in this table have an accuracy of +/- 5%

POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

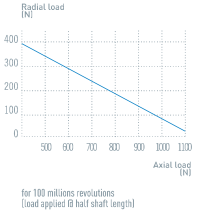
MTS 05 XT



MTS 05 RV



MAXIMUM RADIAL & AXIAL LOAD



NOTES

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MOTOR MTH 05
POWER 270 W

MTH 05

REDUCTION RATIO
(3 digits)
See table

OPTIONS
(2 digits)
See table

M T H 0 5 X 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*

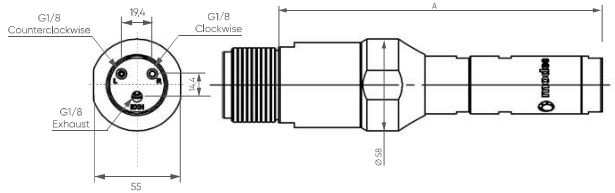
OPTIONS AVAILABLE FOR THIS MOTOR

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

** Exhaust is always collected on "05" series air motors*

LAYOUT

MTH 05



PERFORMANCES

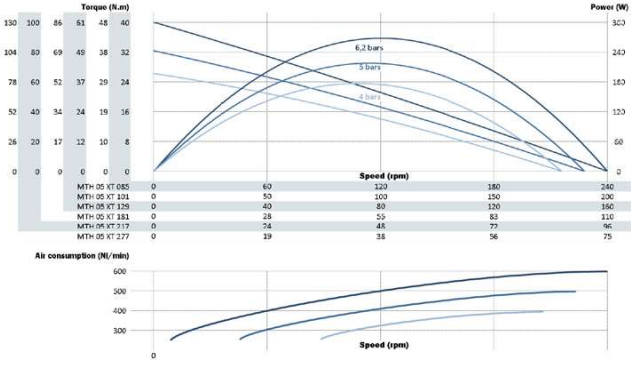
MTH 05 XT Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm) @ max Power	Speed (rpm) Free	Torque (N.m) @ max Power	Torque (N.m) Max (stall)	Torque (N.m) Starting torque	Max Power (W)	Air cons (Nl/min)	Dimensions A (mm)	Dimensions Ø (mm)	Dimensions Weight (kg)
MTH 05 XT 085	85	6,2 bars	121	245	21	40	35	271	500	206,3	58	2,0
		5 bars	115	232	18	32	28	217	400			
		4 bars	108	219	16	26	23	177	300			
MTH 05 XT 101	101	6,2 bars	101	205	26	48	42	271	500	206,3	58	2,0
		5 bars	96	194	22	39	34	217	400			
		4 bars	90	183	19	31	28	177	300			
MTH 05 XT 129	129	6,2 bars	79	161	33	61	54	271	500	206,3	58	2,0
		5 bars	75	152	28	49	43	217	400			
		4 bars	71	144	24	40	35	177	300			
MTH 05 XT 181	181	6,2 bars	57	115	46	86	76	271	500	206,3	58	2,0
		5 bars	53	108	39	69	61	217	400			
		4 bars	50	102	34	56	50	177	300			
MTH 05 XT 217	217	6,2 bars	47	96	55	103	91	271	500	206,3	58	2,0
		5 bars	45	91	46	83	73	217	400			
		4 bars	42	85	40	67	59	177	300			
MTH 05 XT 277	277	6,2 bars	37	75	70	131	115	271	500	206,3	58	2,0
		5 bars	35	71	59	106	93	217	400			
		4 bars	33	67	51	86	76	177	300			

MTH 05 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 05 RV 085	85	6,2 bars	115	226	22	38	24	268	500	206,3	58	2,0
		5 bars	108	216	19	30	19	214	400			
		4 bars	105	208	16	25	15	174	300			
MTH 05 RV 101	101	6,2 bars	96	188	27	46	28	268	500	206,3	58	2,0
		5 bars	90	180	23	36	23	214	400			
		4 bars	87	173	19	30	18	174	300			
MTH 05 RV 129	129	6,2 bars	75	148	34	58	36	268	500	206,3	58	2,0
		5 bars	71	141	29	46	29	214	400			
		4 bars	69	136	24	38	23	174	300			
MTH 05 RV 181	181	6,2 bars	53	105	48	82	51	268	500	206,3	58	2,0
		5 bars	50	101	41	65	40	214	400			
		4 bars	49	97	34	53	33	174	300			
MTH 05 RV 217	217	6,2 bars	45	88	57	98	61	268	500	206,3	58	2,0
		5 bars	42	84	49	78	48	214	400			
		4 bars	41	81	41	63	39	174	300			
MTH 05 RV 277	277	6,2 bars	35	69	73	125	77	268	500	206,3	58	2,0
		5 bars	33	66	62	99	62	214	400			
		4 bars	32	64	52	81	50	174	300			

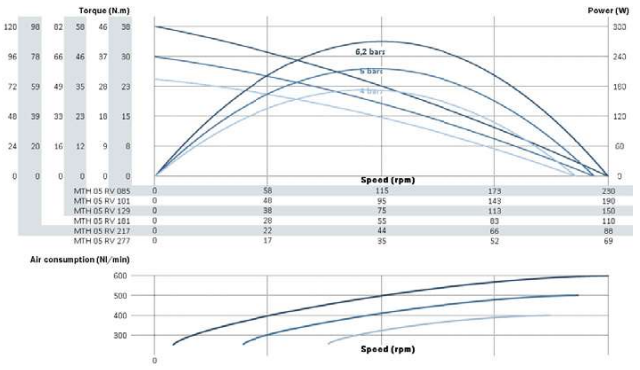
Data indicated in this table have an accuracy of +/- 5%

POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

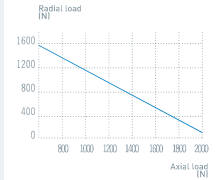
MTH 05 XT



MTH 05 RV



MAXIMUM RADIAL & AXIAL LOAD

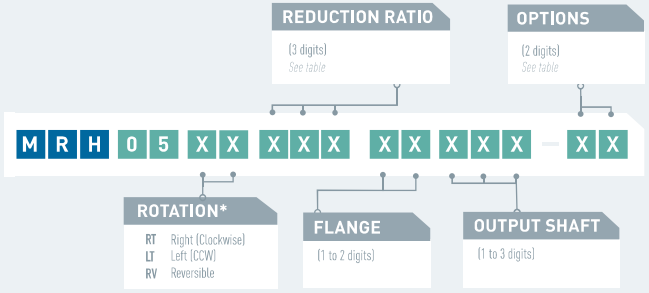


for 100 millions revolutions
(load applied @ half shaft length)

NOTES

MOTOR MRH 05
POWER 270 W

MRH 05



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

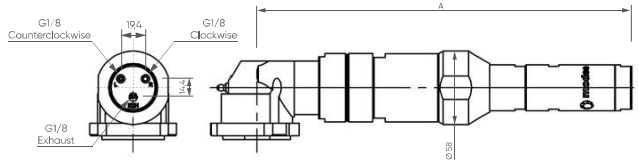
OPTIONS AVAILABLE FOR THIS MOTOR

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

** Exhaust is always collected on "05" series air motors*

LAYOUT

MRH 05



PERFORMANCES

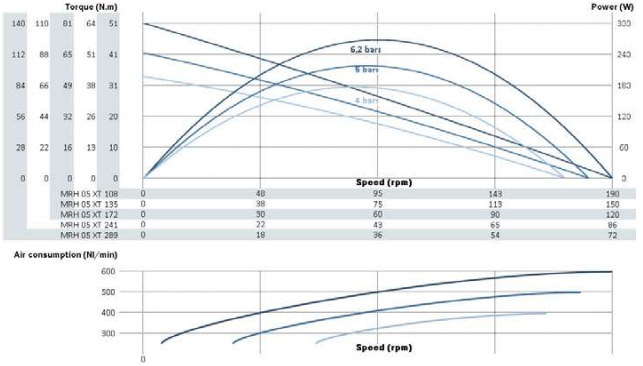
MRH 05 XT	Reduction ratio	Air supply pressure	Speed (rpm)		Torque (N.m)			Max Power (W)	Air cons (Nl/min)	Dimensions		
Air motor reference			@ max Power	Free	@ max Power	Max (stall)	Starting torque			A (mm)	Ø (mm)	Weight (kg)
MRH 05 XT 108	108	6,2 bars	95	193	27	51	45	271	500	271,3	58	2,6
		5 bars	90	183	23	41	36	217	400			
		4 bars	85	172	20	33	29	177	300			
MRH 05 XT 135	135	6,2 bars	76	154	34	64	56	271	500	295,3	58	2,9
		5 bars	72	146	29	52	45	217	400			
		4 bars	68	138	25	42	37	177	300			
MRH 05 XT 172	172	6,2 bars	60	121	43	81	72	271	500	295,3	58	2,9
		5 bars	56	114	37	66	58	217	400			
		4 bars	53	108	32	53	47	177	300			
MRH 05 XT 241	241	6,2 bars	42	86	61	114	100	271	500	295,3	58	2,9
		5 bars	40	82	52	92	81	217	400			
		4 bars	38	77	45	75	66	177	300			
MRH 05 XT 289	289	6,2 bars	35	72	73	137	120	271	500	295,3	58	2,9
		5 bars	34	68	62	111	97	217	400			
		4 bars	32	64	54	90	79	177	300			

MRH 05 RV	Reduction ratio	Air supply pressure	Speed (rpm)		Torque (N.m)			Max Power (W)	Air cons (Nl/min)	Dimensions		
Air motor reference			@ max Power	Free	@ max Power	Max (stall)	Starting torque			A (mm)	Ø (mm)	Weight (kg)
MRH 05 RV 108	108	6,2 bars	90	177	28	48	30	268	500	271,3	58	2,6
		5 bars	85	170	24	39	24	214	400			
		4 bars	82	163	20	31	19	174	300			
MRH 05 RV 135	135	6,2 bars	72	142	36	61	38	268	500	295,3	58	2,9
		5 bars	68	136	30	48	30	214	400			
		4 bars	66	130	25	39	24	174	300			
MRH 05 RV 172	172	6,2 bars	56	111	45	77	48	268	500	295,3	58	2,9
		5 bars	53	106	38	62	38	214	400			
		4 bars	52	102	32	50	31	174	300			
MRH 05 RV 241	241	6,2 bars	40	79	64	109	67	268	500	295,3	58	2,9
		5 bars	38	76	54	86	54	214	400			
		4 bars	37	73	45	70	44	174	300			
MRH 05 RV 289	289	6,2 bars	34	66	76	130	81	268	500	295,3	58	2,9
		5 bars	32	63	65	104	64	214	400			
		4 bars	31	61	54	84	52	174	300			

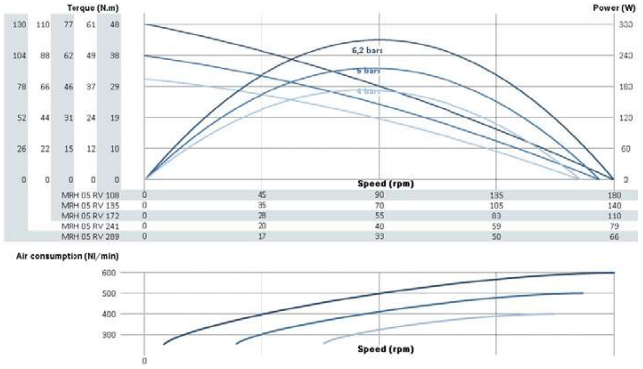
Data indicated in this table have an accuracy of +/- 5%

POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

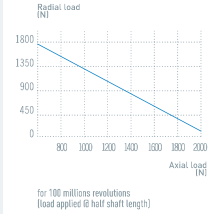
MRH 05 XT



MRH 05 RV



MAXIMUM RADIAL & AXIAL LOAD



NOTES

modec
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« 05 » serie
heavy duty

MOTOR MRZ 05
POWER 270 W

MRZ 05

REDUCTION RATIO (3 digits) See table

OPTIONS (2 digits) See table

M R Z 0 5 X 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

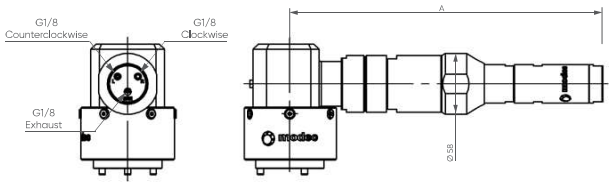
OPTIONS AVAILABLE FOR THIS MOTOR

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

* Exhaust is always collected on "05" series air motors

LAYOUT

MRZ 05



PERFORMANCES

MRZ 05 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 05 XT 369	369	6,2 bars	28	56	93	174	153	271	500	271,3	58	4,4
		5 bars	26	53	79	141	123	217	400			
		4 bars	25	50	68	114	101	177	300			
MRZ 05 XT 421	421	6,2 bars	24	49	106	199	175	271	500	295.3	58	4,4
		5 bars	23	47	90	161	141	217	400			
		4 bars	22	44	78	131	115	177	300			
MRZ 05 XT 505	505	6,2 bars	20	41	127	239	210	271	500	295.3	58	4,4
		5 bars	19	39	108	193	169	217	400			
		4 bars	18	37	93	157	138	177	300			
MRZ 05 XT 643	643	6,2 bars	16	32	162	304	268	271	500	295.3	58	4,4
		5 bars	15	31	137	246	215	217	400			
		4 bars	14	29	119	200	176	177	300			
MRZ 05 XT 790	790	6,2 bars	13	26	199	374	329	271	500	271,3	58	4,4
		5 bars	12	25	169	302	265	217	400			
		4 bars	12	24	146	245	216	177	300			

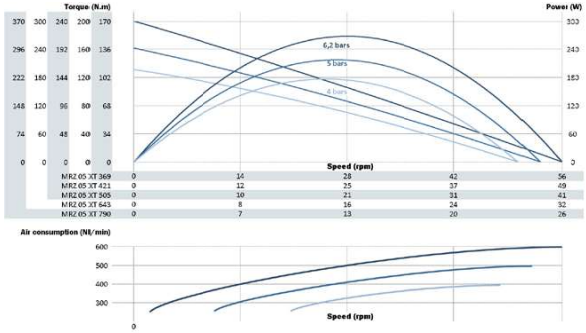
MRZ 05 RV

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 05 RV 369	369	6,2 bars	26	52	97	166	103	268	500	271,3	58	4,4
		5 bars	25	50	82	132	82	214	400			
		4 bars	24	48	69	107	67	174	300			
MRZ 05 RV 421	421	6,2 bars	23	45	111	190	118	268	500	295,3	58	4,4
		5 bars	22	43	94	151	94	214	400			
		4 bars	21	42	79	123	76	174	300			
MRZ 05 RV 505	505	6,2 bars	19	38	133	227	141	268	500	295,3	58	4,4
		5 bars	18	36	113	181	112	214	400			
		4 bars	18	35	95	147	91	174	300			
MRZ 05 RV 643	643	6,2 bars	15	30	169	290	180	268	500	295,3	58	4,4
		5 bars	14	28	144	230	143	214	400			
		4 bars	14	27	121	187	116	174	300			
MRZ 05 RV 790	790	6,2 bars	12	24	208	355	220	268	500	271,3	58	4,4
		5 bars	12	23	177	283	175	214	400			
		4 bars	11	22	148	230	143	174	300			

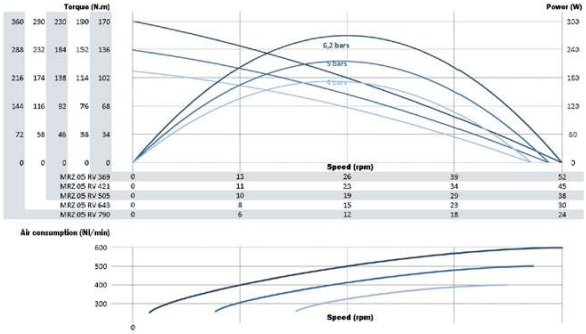
Data indicated in this table have an accuracy of +/- 5%

POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

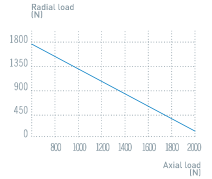
MRZ 05 XT



MRZ 05 RV



MAXIMUM RADIAL & AXIAL LOAD



NOTES

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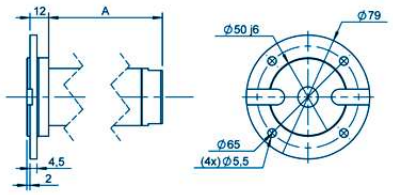
FLANGES & SHAFTS

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.

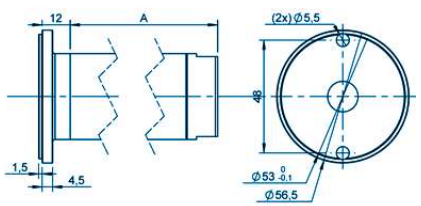
FLANGES & SHAFTS **GROUP I**

MTE 05 MTS 05

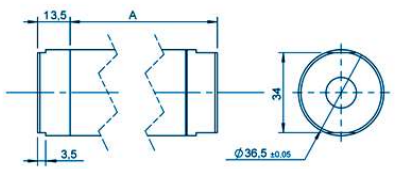
GROUP I FLANGE AA



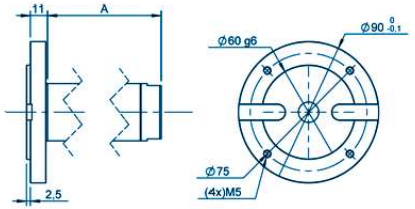
GROUP I FLANGE B



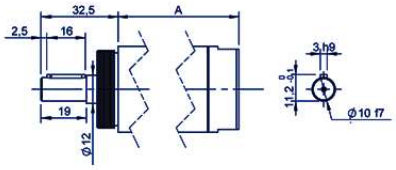
GROUP I FLANGE P



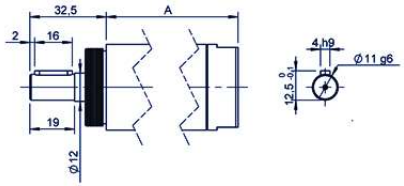
GROUP I FLANGE S - IEC63B14



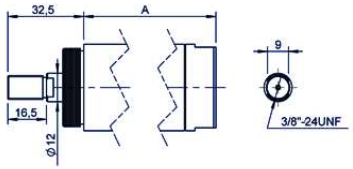
GROUP I SHAFT CL1 - KEYED Ø10



GROUP I SHAFT CL2 - KEYED Ø11 - IEC63B14



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



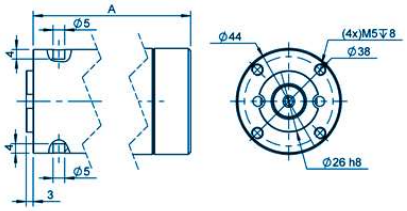
You didn't find your match ?

Contact us !

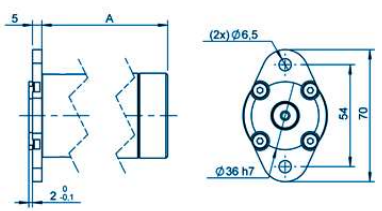
FLANGES & SHAFTS **GROUP II** (1/2)

MTE 07 MTS 07

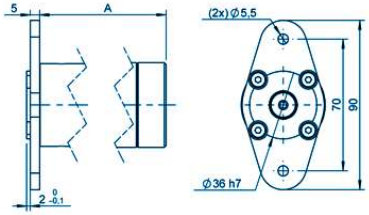
GROUP II FLANGE AA



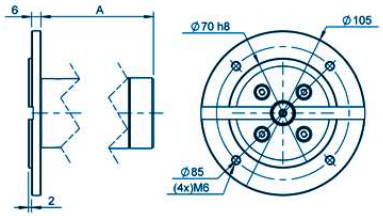
GROUP II FLANGE AB



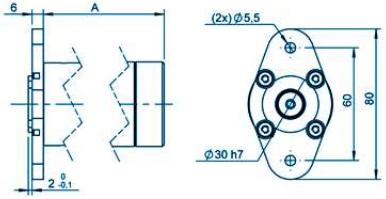
GROUP II FLANGE AC



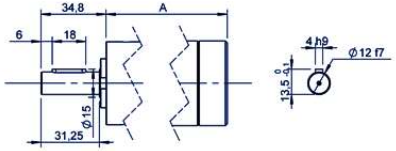
GROUP II FLANGE AD - IEC 71B14



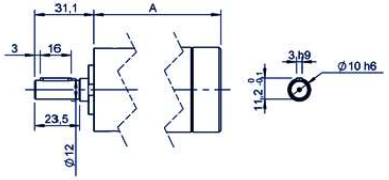
GROUP II FLANGE AE



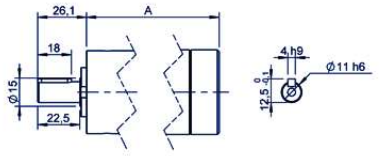
GROUP II SHAFT 001 - KEYED Ø12



GROUP II SHAFT 004 - KEYED Ø10



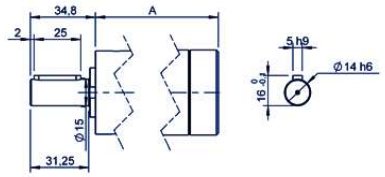
GROUP II SHAFT 006 - KEYED Ø11



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

MTE 07 MTS 07

GROUP II SHAFT S01 - KEYED Ø14 - IEC 71B14



You didn't find your match ?

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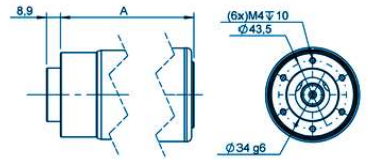
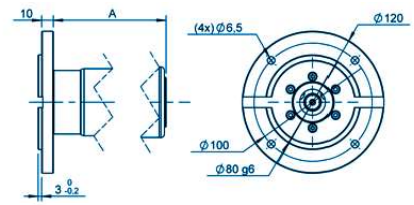
FLANGES & SHAFTS **GROUP III**

XTE 08 XTE 10 XTE 20 XTE 25

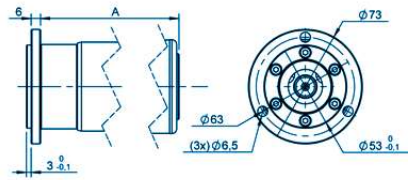
GROUP III FLANGE AA



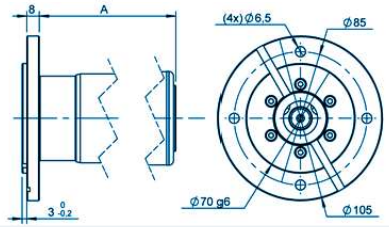
GROUP III FLANGE AB - IEC 80B14



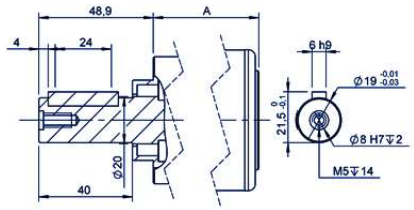
GROUP III FLANGE B



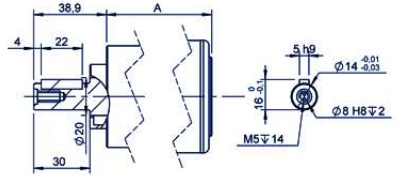
GROUP III FLANGE FJ - IEC 71B14



GROUP III SHAFT 001 - KEYED Ø19 -IEC 80B14



GROUP III SHAFT C25 - KEYED Ø14 -IEC 71B14



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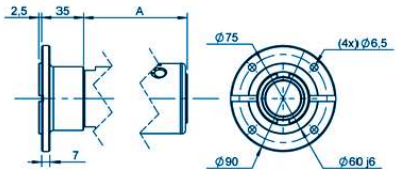
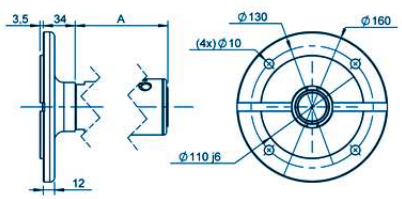
FLANGES **GROUP IV** (1/3)

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

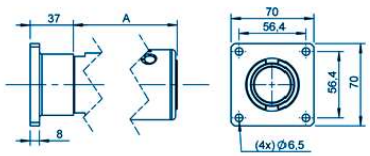
GROUP IV FLANGE AB - IEC63B14



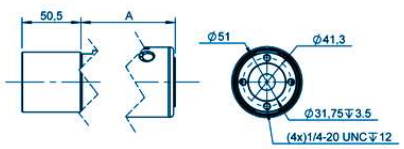
GROUP IV FLANGE AC - IEC71B5



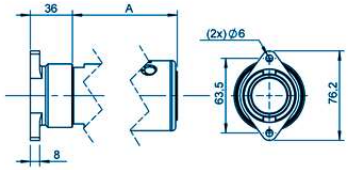
GROUP IV FLANGE AF



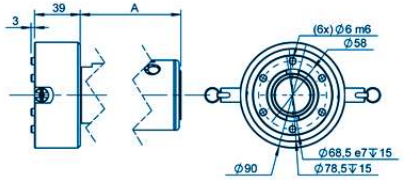
GROUP IV FLANGE AH



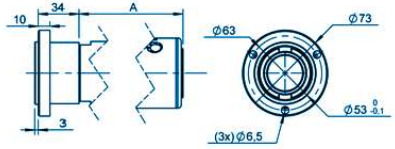
GROUP IV FLANGE AS



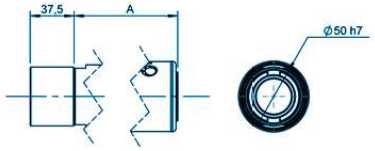
GROUP IV FLANGE AX - ARP



GROUP IV FLANGE B



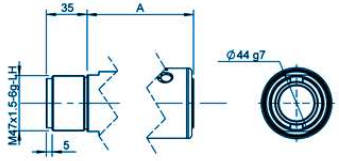
GROUP IV FLANGE BO



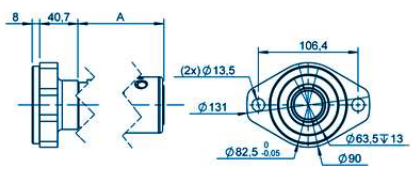
FLANGES **GROUP IV** (2/3)

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

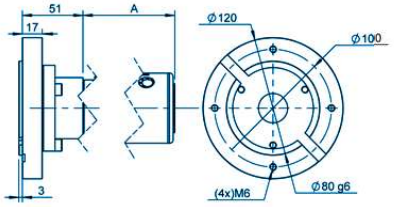
GROUP IV FLANGE F



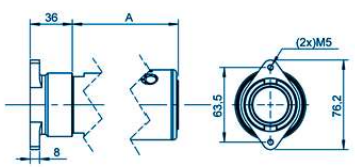
GROUP IV FLANGE FH



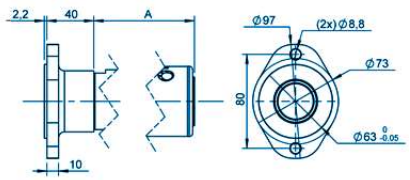
GROUP IV FLANGE FJ - IEC80B14



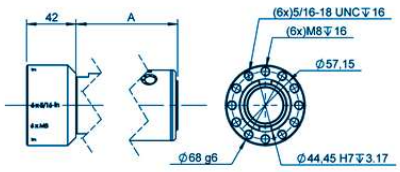
GROUP IV FLANGE J



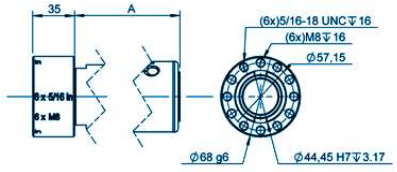
GROUP IV FLANGE L



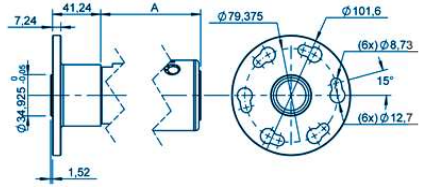
GROUP IV FLANGE M



GROUP IV FLANGE N



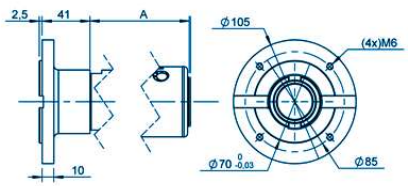
GROUP IV FLANGE Q



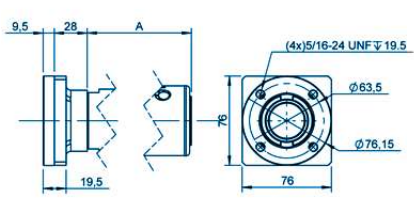
FLANGES GROUP IV (3/3)

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

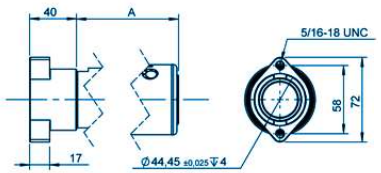
GROUP IV FLANGE R - IEC71B14



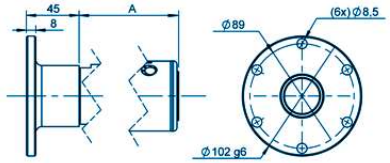
GROUP IV FLANGE S



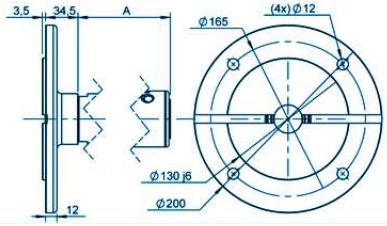
GROUP IV FLANGE U



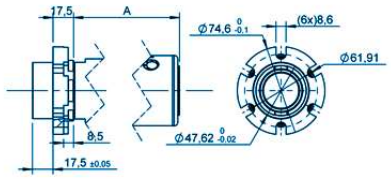
GROUP IV FLANGE V



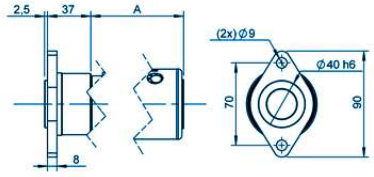
GROUP IV FLANGE W - IEC80B5



GROUP IV FLANGE Y



GROUP IV FLANGE Z



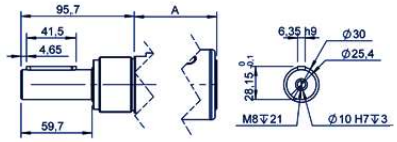
You didn't find your match ?

Contact us !

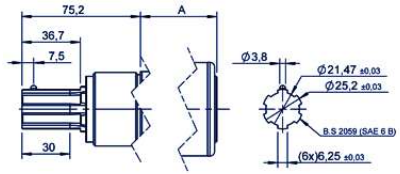
SHAFTS GROUP IV (1/3)

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

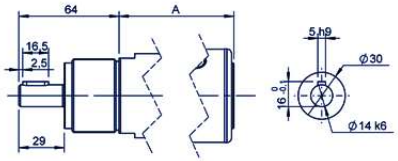
GROUP IV SHAFT 007 - KEYED Ø1''



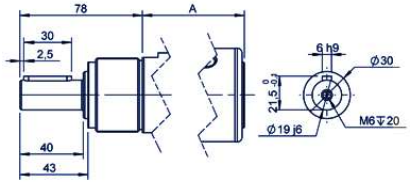
GROUP IV SHAFT 019 - SPLINED ARP



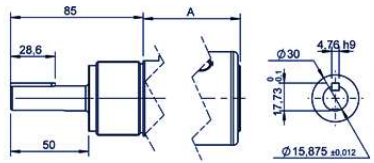
GROUP IV SHAFT C11 - KEYED Ø14 - IEC71B5 - IEC71B14



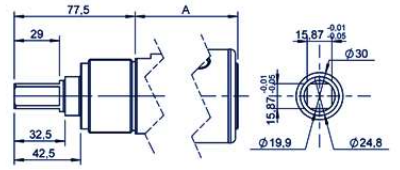
GROUP IV SHAFT C12 - KEYED Ø19 - IEC80B5 - IEC80B14



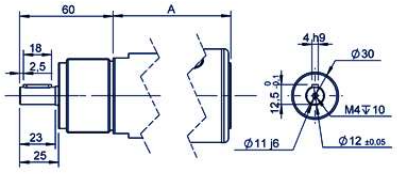
GROUP IV SHAFT C15 - KEYED Ø5/8''



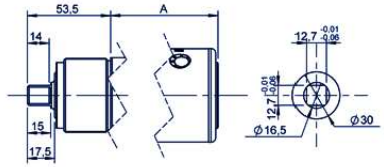
GROUP IV SHAFT C16 - SQUARE Ø5/8''



GROUP IV SHAFT C19 - KEYED Ø11 - IEC63B14



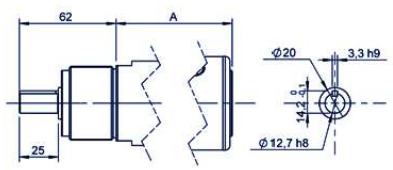
GROUP IV SHAFT CA1 - SQUARE Ø1/2''



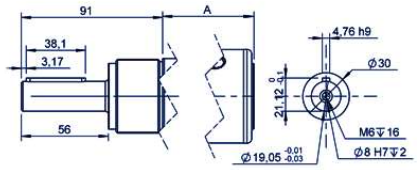
SHAFTS **GROUP IV** (2/3)

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

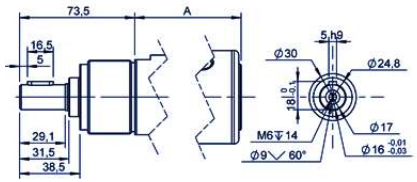
GROUP IV SHAFT CL1 - KEYED Ø1/2"



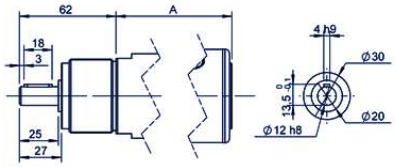
GROUP IV SHAFT CL2 - KEYED Ø3/4"



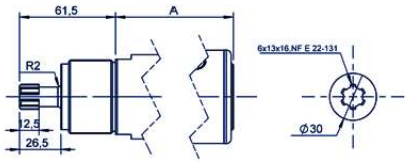
GROUP IV SHAFT CL6 - KEYED Ø16



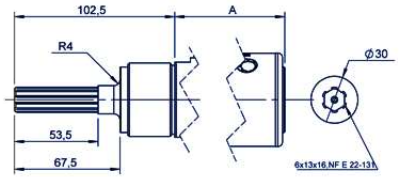
GROUP IV SHAFT CL9 - KEYED Ø12



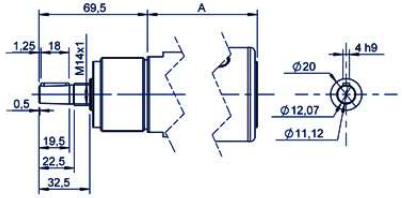
GROUP IV SHAFT CNC - SPLINED SHORT



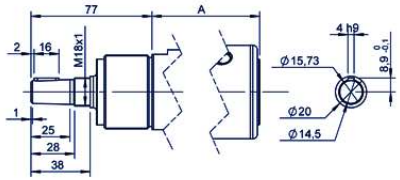
GROUP IV SHAFT CNL - SPLINED LONG



GROUP IV SHAFT CONICAL B12



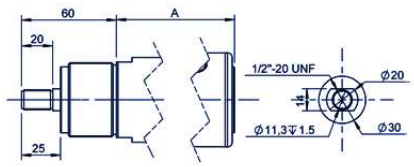
GROUP IV SHAFT CONICAL B16



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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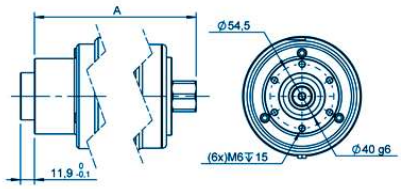
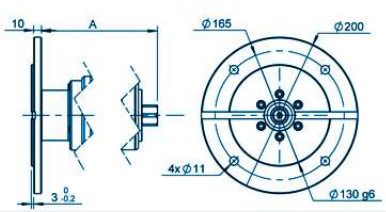
FLANGES & SHAFTS **GROUP V**

XTE 30

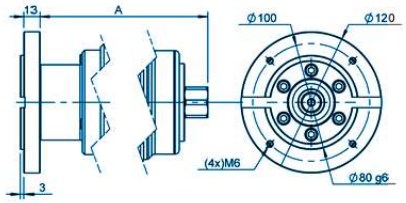
GROUP V FLANGE AA



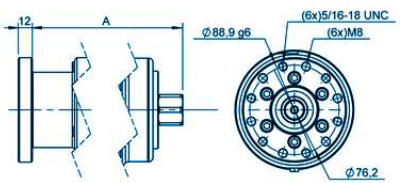
GROUP V FLANGE AB - IEC 80B5 - IEC 90B5



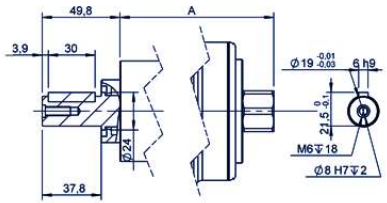
GROUP V FLANGE AC - IEC 80B14



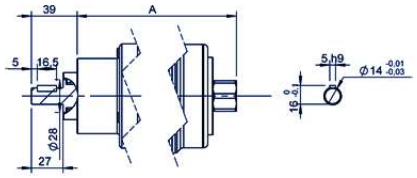
GROUP V FLANGE B



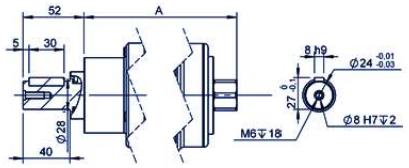
GROUP V SHAFT 001 - KEYED Ø19 -IEC 80B14 - IEC80B5



GROUP V SHAFT 002 - KEYED Ø14



GROUP V SHAFT CL6 - KEYED Ø24 -IEC 90B5



You didn't find your match ?

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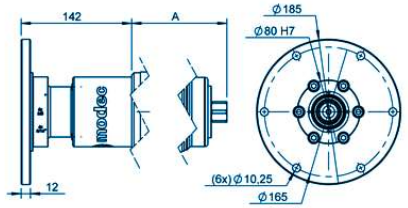
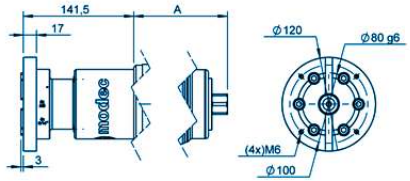
FLANGES **GROUP VI**

XTZ 08 XTZ 10 XTZ 20 XTZ 25 XTS 30

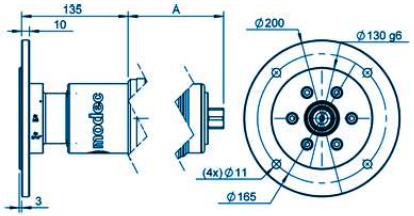
GROUP VI FLANGE AA



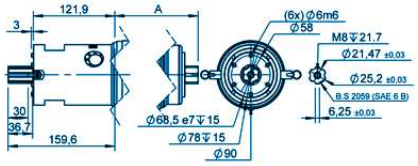
GROUP VI FLANGE AB - IEC80B14



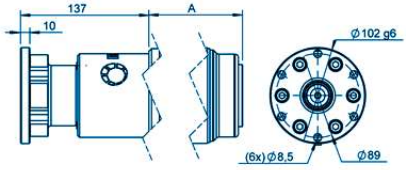
GROUP VI FLANGE AG - IEC80B5



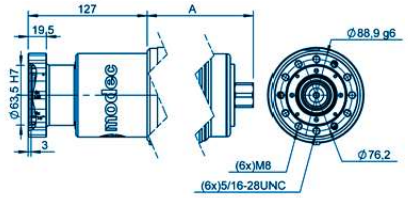
GROUP VI FLANGE AI WITH SHAFT CNW



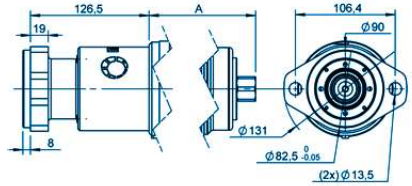
GROUP VI FLANGE AL



GROUP VI FLANGE B



GROUP VI FLANGE H



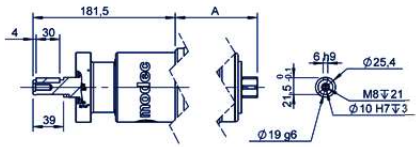
You didn't find your match ?

Contact us !

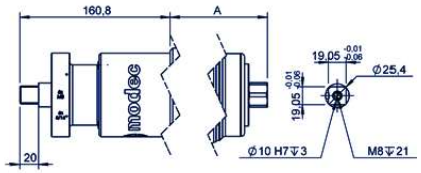
SHAFTS **GROUP VI**

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

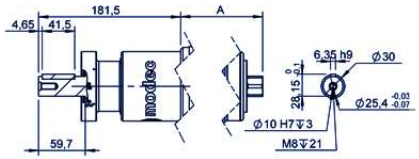
GROUP VI SHAFT 003 - KEYED Ø19 - IEC 80B14 - IEC 80B5



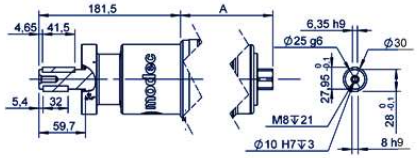
GROUP VI SHAFT CA1 - SQUARE 3/4''



GROUP VI SHAFT CL2 - KEYED Ø1''



GROUP VI SHAFT CL4 - KEYED Ø25



You didn't find your match ?

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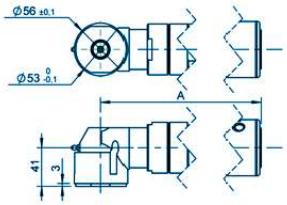
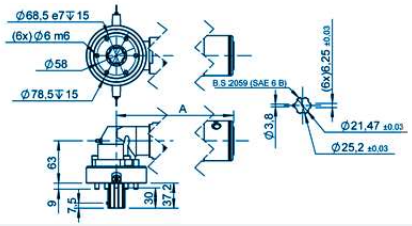
FLANGES **GROUP VII**

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

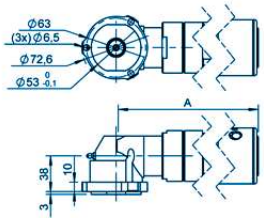
GROUP VII FLANGE AF



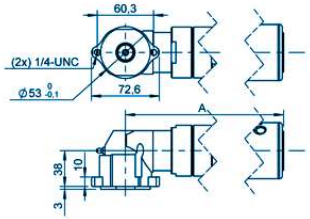
GROUP VII FLANGE AG WITH SHAFT 013



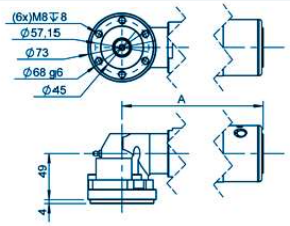
GROUP VII FLANGE B



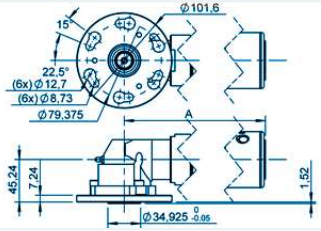
GROUP VII FLANGE E



GROUP VII FLANGE M



GROUP VII FLANGE Q



You didn't find your match ?

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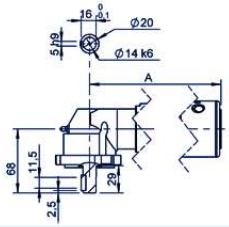
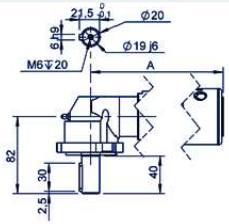
SHAFTS **GROUP VII** [1/2]

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

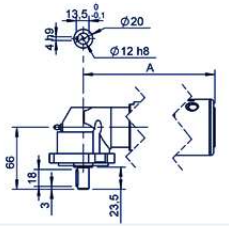
GROUP VII SHAFT 021 - KEYED Ø14



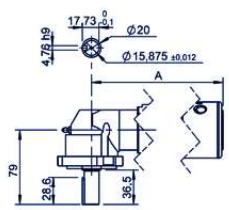
GROUP VII SHAFT C12 - KEYED Ø19



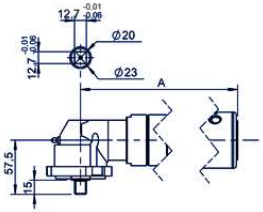
GROUP VII SHAFT C13 - KEYED Ø12



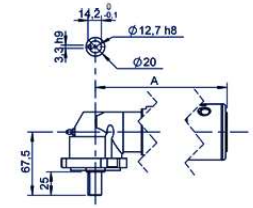
GROUP VII SHAFT C14 - KEYED Ø5/8''



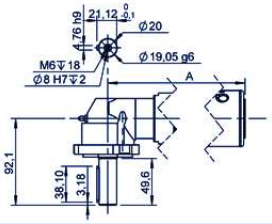
GROUP VII SHAFT CA1 - SQUARE 1/2''



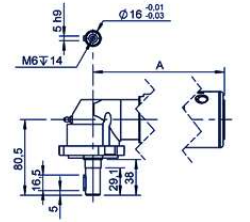
GROUP VII SHAFT CL1 - KEYED Ø1/2''



GROUP VII SHAFT CL2 - KEYED Ø3/4''



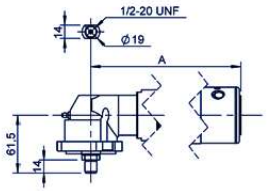
GROUP VII SHAFT CL6 - KEYED Ø16



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

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

GROUP VII SHAFT FI1 - THREADED Ø1/2''



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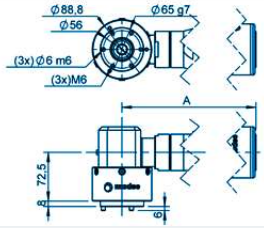
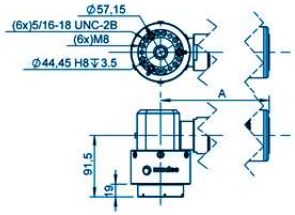
FLANGES **GROUP VIII**

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

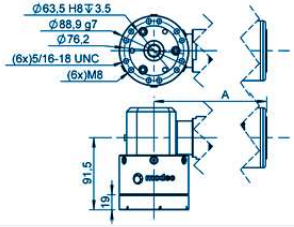
GROUP VIII FLANGE AA



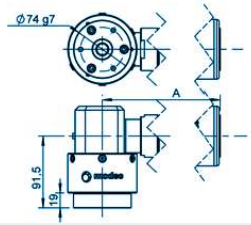
GROUP VIII FLANGE AB



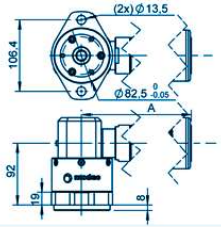
GROUP VIII FLANGE AC



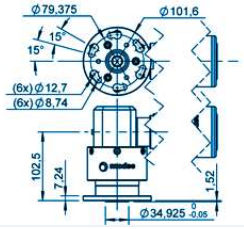
GROUP VIII FLANGE AD



GROUP VIII FLANGE AE



GROUP VIII FLANGE Q



You didn't find your match ?

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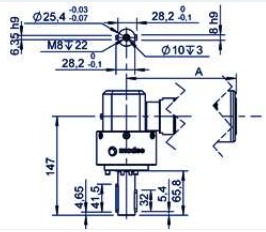
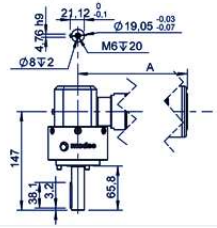
SHAFTS **GROUP VIII**

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

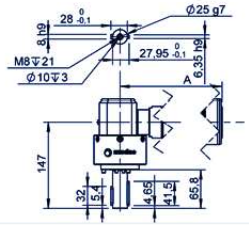
GROUP VIII SHAFT 001 - KEYED Ø1"



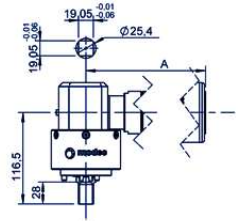
GROUP VIII SHAFT 002 - KEYED Ø3/4"



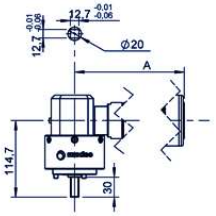
GROUP VIII SHAFT 003 - KEYED Ø25



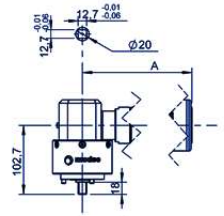
GROUP VIII SHAFT 004 - SQUARE 3/4"



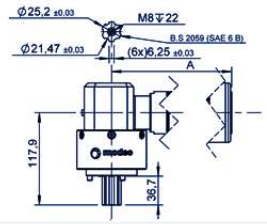
GROUP VIII SHAFT 005 - SQUARE 1/2" LONG



GROUP VIII SHAFT CA1 - SQUARE 1/2" SHORT



GROUP VIII SHAFT CNW - SPLINED



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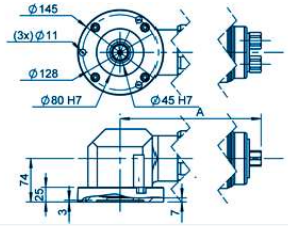
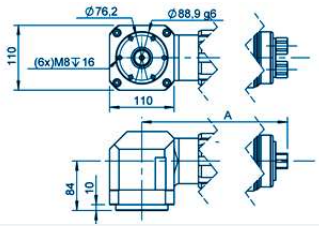
FLANGES & SHAFTS **GROUP IX**

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

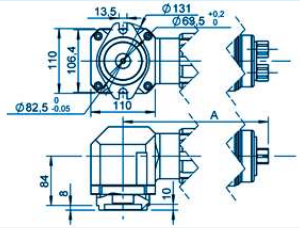
GROUP IX FLANGE A



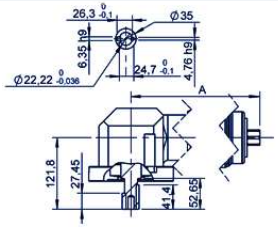
GROUP IX FLANGE B



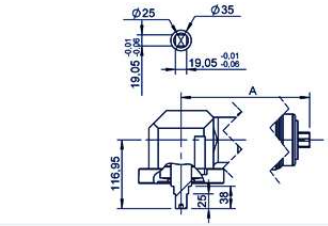
GROUP IX FLANGE H



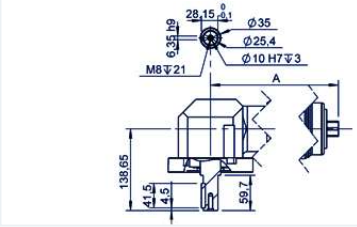
GROUP IX SHAFT 001 - KEYED Ø7/8''



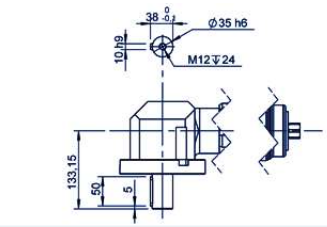
GROUP IX SHAFT 003 - KEYED Ø3/4''



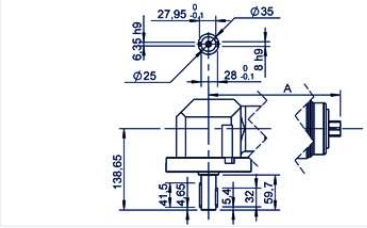
GROUP IX SHAFT CL2 - KEYED Ø1''



GROUP IX SHAFT CL3 - KEYED Ø35



GROUP IX SHAFT CL4 - KEYED Ø25



You didn't find your match ?

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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

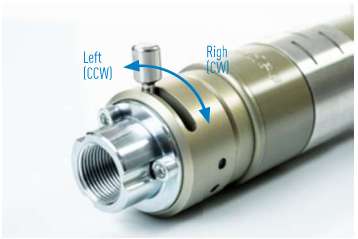
All **modec** air motors can be certified ATEX on request.

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)

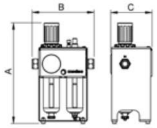
The Filtering, pressure Regulation and Lubrication unit (FRL) is a mandatory element for a good air motor functioning, performance, service life and control. It ensures fluid (compressed air or inert gas) filtering, drying and lubrication so that the motor will be fed with a « clean » gas. It also controls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

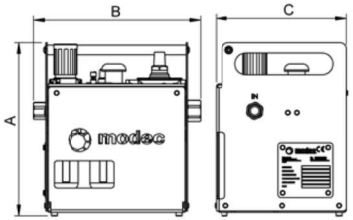
All these safety features are energized by air pressure, without any other source of energy required. This makes it possible to have it ATEX certified on request.

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

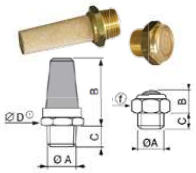
FILTERS & SILENCERS

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).

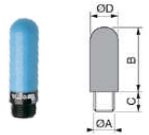
• METALLIC SILENCERS



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

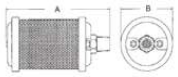
3• HIGH FLOW EXHAUST MUFFLER

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

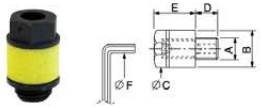
		05		07		08		10XT	10RV		20 XT	20 RV		25		30	
		Exhaust	Inlet	Exhaust	Inlet	Exhaust	Inlet	Exhaust	Exhaust	Inlet	Exhaust	Exhaust	Inlet	Exhaust	Inlet	Exhaust	Inlet
	Size	G1/8	G1/8	G1/4	G1/8	G3/8	G1/4	G3/4	G3/4	G3/8	G3/4	G3/4	G3/8	G3/4	G3/8	G3/4	G1/2
Plastic	Reference	AC166	AC166	AC150	AC166	AC183	AC150	AC152	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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