



**AIR MOTORS
CATALOGUE**



modtec
moteurs & solutions pneumatiques

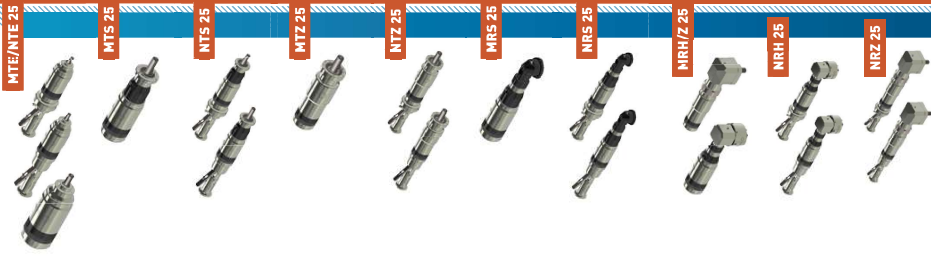


MAX POWER
2700 W
MAX TORQUE
920 Nm

Frequently used in bolting applications with high torques, the "25" series air motors are often equipped with an angle drive head and a high flow control handle to ensure they have the necessary power.

The "25" series air motors can be found on lifting applications with torques approaching 1000 Nm, or on cutting applications with speeds above 11000 rpm.

Their high power (2700W) does not prevent them from being compact and light (3 to 12 kg, depending on the chosen configuration) and very versatile.



+ ACCESSORIES FOR THIS MOTOR

	Reference
Filtration, pressure regulation and lubrication unit (FRL)	AC108
Safety Air Treatment Box (SAT Box)	AC126
With Pedal remote control	AC127
With handle remote control	AC128
With remote emergency kill switch	AC129
With remote E-Stop and pedal remote control	AC130
With remote E-Stop and handle remote control	AC131
Maintenance kits	
Maintenance kit for "25" series	AC305
Maintenance kit for lubri free "25" series	AC315
Maintenance kit for kit start "25" series	AC325
Exhaust collector kit for "25" series	AC342
modec Oil-Cr-16	AC149
Control handles	
Safety control handle for non reversible "25" series	AC412
Safety control handle for reversible "25" series	AC414
Progressive control handle for non reversible "25" series	AC407
Progressive control handle for reversible "25" series	AC410
Filters of silencers	
Metallic standard exhaust silencer	AC182
Metallic standard inlet silencer	AC181
Plastic standard exhaust silencer	AC153
Plastic standard inlet silencer	AC183
Heavy duty exhaust silencer	AC157
Heavy duty inlet silencer	AC155
High flow air muffler	AC140
Exhaust silencer filter	AC185
Speed control muffler	AC174

CONNECTION AND LUBRIFICATION

Ø	Min. fittings Ø		Min. pipe Ø		Lubrication (6,2 bars)
	In	Out	In	Out	
10 mm / 0,4 In	13 mm / 0,5 In	20 mm / 0,8 In	10 mm / 0,4 In	13 mm / 0,5 In	10 drops / minute

CONVERSION TABLE

Watt → Horse power	Newton meter → Pound feet
Watt x 0,001341 = hp	Nm x 0,7376 = lb.ft
Bar → Pound per square Inch	Norma Liter / minute → Standard cubic feet per minute
Bar x 14,5 = psi	Nl / min x 0,03531 = scfm
	Millicenter → Inch
	Kilogram → Pound
	Kg x 2,205 = lb

easy duty

<< 25 >> serie

MOTORS MTE 25 / NTE 25 POWER 2400-2700 W



MTE 25



NTE 25 XT



NTE 25 RV

REDUCTION RATIO
(3 digits)
See table

OPTIONS
(2 digits)
See table

X T E 2 5 X X X X X X X X X X X X X X X

ROTATION*

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

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

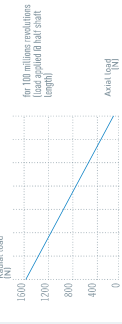
FLANGE

(1 to 7 digits)

OUTPUT SHAFT

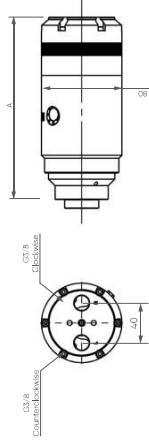
(1 to 3 digits)

MAXIMUM RADIAL & AXIAL LOAD

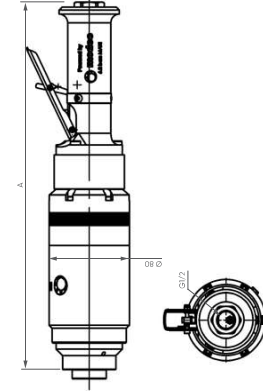


LAYOUT

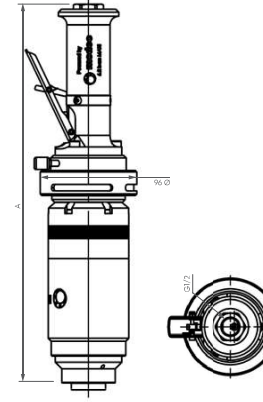
MTE 25



NTE 25 XT



NTE 25 RV



PERFORMANCES

MTE / NTE 25			Speed (rpm)		Torque (N.m)		Air consumption (l/min)		Dimensions		
Air motor reference	Reduction ratio	Air supply pressure	Free	max Power	Max (stall)	Starting torque	Max Power (W)	Air (l/min)	A (mm)	Ø (mm)	Weight (kg)
MTE 25 XT 001	001	6.2 bars 5 bars 4 bars	5700 5300 4900	4.5 3.8 3.2	7.5 6.2 4.9	6.6 5.5 4.3	2700 2100 1650	2800 2300 1800	182.6	80	3.0
MTE 25 RV 001	001	6.2 bars 5 bars 4 bars	4800 4400 4000	4.4 3.8 3.2	6.8 5.6 4.6	5.0 4.0 3.0	2400 1900 1500	2200 1800 1700	182.6	80	3.0
NTE 25 XT 001	001	6.2 bars 5 bars 4 bars	5700 5300 4900	4.5 3.8 3.2	7.5 6.2 4.9	6.6 5.5 4.3	2700 2100 1650	2800 2300 1800	367.1	80	4.0
NTE 25 RV 001	001	6.2 bars 5 bars 4 bars	5100 4800 4400	4.4 3.8 3.2	6.8 5.6 4.6	6.0 5.0 4.0	2400 1900 1500	2700 2200 1700	378.1	80	4.4

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

OPTIONS AVAILABLE FOR THE MTE 25

Collected exhaust	00	01	02	03	04	05	07	09	10	11	12	13	14	16	17	21	22	23	27	28	29	30	36	37
ATEX certification	00	01	02	03	04	05	07	09	10	11	12	13	14	16	17	21	22	23	27	28	29	30	36	37
Left/Right switch*	00	01	02	03	04	05	07	09	10	11	12	13	14	16	17	21	22	23	27	28	29	30	36	37
Lubrication free	00	01	02	03	04	05	07	09	10	11	12	13	14	16	17	21	22	23	27	28	29	30	36	37
Kit start	00	01	02	03	04	05	07	09	10	11	12	13	14	16	17	21	22	23	27	28	29	30	36	37
Inox	00	01	02	03	04	05	07	09	10	11	12	13	14	16	17	21	22	23	27	28	29	30	36	37
Code	00	01	02	03	04	05	07	09	10	11	12	13	14	16	17	21	22	23	27	28	29	30	36	37

*Reversible motors only **Non reversible motors only

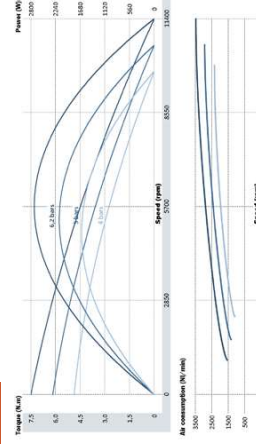
OPTIONS AVAILABLE FOR THE NTE 25 XT

Collected exhaust	00	01	02	03	04	05	07	09	10	11	12	13	14	16	17	21	22	23	27	28	29	30
ATEX certification	00	01	02	03	04	05	07	09	10	11	12	13	14	16	17	21	22	23	27	28	29	30
Left/Right switch*	00	01	02	03	04	05	07	09	10	11	12	13	14	16	17	21	22	23	27	28	29	30
Lubrication free	00	01	02	03	04	05	07	09	10	11	12	13	14	16	17	21	22	23	27	28	29	30
Kit start	00	01	02	03	04	05	07	09	10	11	12	13	14	16	17	21	22	23	27	28	29	30
Code	00	01	02	03	04	05	07	09	10	11	12	13	14	16	17	21	22	23	27	28	29	30

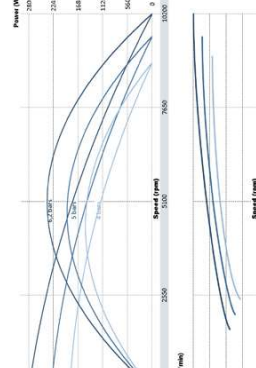
*Reversible motors only **Non reversible motors only

POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

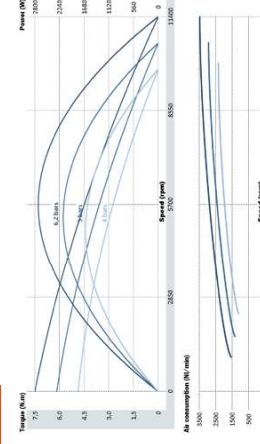
MTE 25 XT



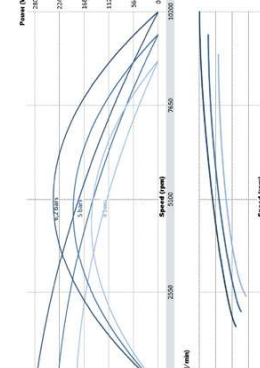
MTE 25 RV



NTE 25 XT



NTE 25 RV

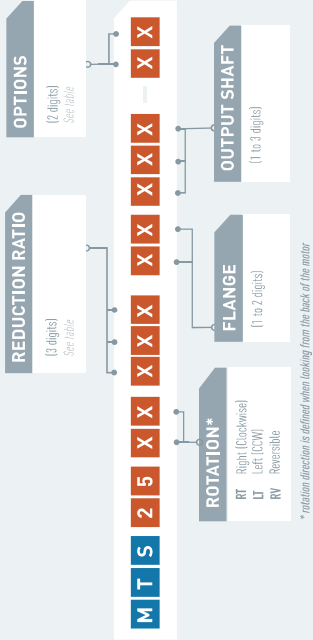


MOTORS MTS 25

POWER 2400-2700 W



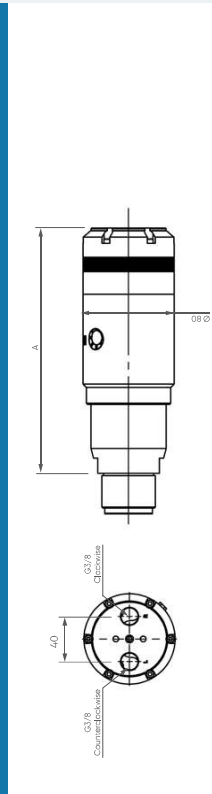
MTS 25



PERFORMANCES

Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm)	Free @ max Power	Max Power (W)	Starting torque	Air cons (Nl/min)	Dimensions	Weight (kg)
MTS 25 XT 004	4	6,2 bars	1980	2769	19	28	2772	2800	3,6
		5 bars	1980	2561	16	26	2129	2300	3,6
MTS 25 XT 005	5	6,2 bars	1199	2371	13	20	1644	1800	3,6
		5 bars	1199	2272	12	20	1722	2800	3,6
MTS 25 XT 006	6	6,2 bars	1032	2025	10	20	1179	1800	3,6
		5 bars	1032	2025	10	20	1179	2800	3,6
MTS 25 XT 007	7	6,2 bars	1001	2001	10	36	2772	2800	3,6
		5 bars	929	1857	22	36	2129	2300	3,6
MTS 25 XT 011	11	6,2 bars	860	1719	18	28	1644	1800	3,6
		5 bars	860	1719	18	28	1644	2800	3,6
MTS 25 XT 017	17	6,2 bars	795	1459	23	40	2129	2800	4,1
		5 bars	795	1459	23	40	2129	2300	4,1
MTS 25 XT 023	23	6,2 bars	548	1096	47	79	2772	2800	4,1
		5 bars	509	1017	40	65	2129	2300	4,1
MTS 25 XT 031	31	6,2 bars	331	662	79	115	2772	2800	4,1
		5 bars	307	614	66	108	2129	2300	4,1
MTS 25 XT 035	35	6,2 bars	284	569	95	75	1644	1800	4,1
		5 bars	250	499	80	174	153	2800	4,1
MTS 25 RV 004	4	6,2 bars	2129	1017	40	65	2129	2300	3,6
		5 bars	2129	1017	40	65	2129	2800	3,6
MTS 25 RV 005	5	6,2 bars	1260	864	26	32	1644	1800	3,6
		5 bars	1260	864	26	32	1644	2800	3,6
MTS 25 RV 006	6	6,2 bars	1001	2001	10	36	2772	2800	3,6
		5 bars	929	1857	22	36	2129	2300	3,6
MTS 25 RV 007	7	6,2 bars	860	1719	18	28	1644	1800	3,6
		5 bars	860	1719	18	28	1644	2800	3,6
MTS 25 RV 011	11	6,2 bars	795	1459	23	40	2129	2800	4,1
		5 bars	795	1459	23	40	2129	2300	4,1
MTS 25 RV 017	17	6,2 bars	548	1096	47	79	2772	2800	4,1
		5 bars	509	1017	40	65	2129	2300	4,1
MTS 25 RV 023	23	6,2 bars	331	662	79	115	2772	2800	4,1
		5 bars	307	614	66	108	2129	2300	4,1
MTS 25 RV 031	31	6,2 bars	284	569	95	75	1644	1800	4,1
		5 bars	250	499	80	174	153	2800	4,1
MTS 25 RV 035	35	6,2 bars	162	327	159	205	2772	2800	4,1
		5 bars	152	304	134	218	2129	2300	4,1

LAYOUT



OPTIONS AVAILABLE FOR THIS MOTOR

Option	00	01	02	03	04	05	07	09	10	12	13	14	16	17	21	29	30
Collected exhaust																	
ATEX certification																	
Left/Right switch*																	
Lubrication free																	
Kit start																	
Code																	

* Reversible motor only

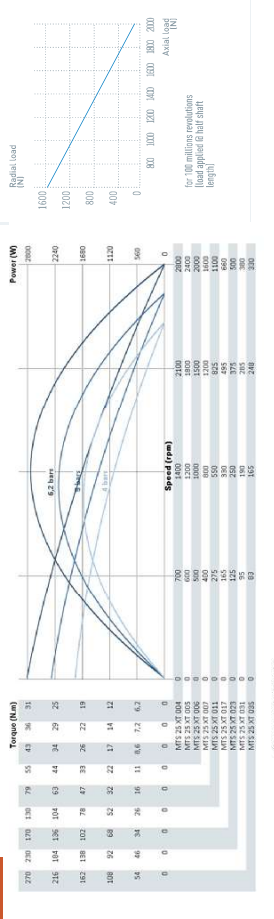
PERFORMANCES

Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm)	Free @ max Power	Max Power (W)	Starting torque	Air cons (Nl/min)	Dimensions	Weight (kg)
MTS 25 RV 004	4	6,2 bars	1232	2454	18	29	25	2385	3,6
		5 bars	1152	2303	16	23	23	2191	3,6
MTS 25 RV 005	5	6,2 bars	1070	2140	13	19	17	1915	3,6
		5 bars	1070	2140	13	19	17	1915	3,6
MTS 25 RV 006	6	6,2 bars	893	1767	25	39	35	2385	3,6
		5 bars	835	1670	22	32	28	2191	3,6
MTS 25 RV 007	7	6,2 bars	701	1492	33	50	44	2387	3,6
		5 bars	655	1310	28	41	36	2191	3,6
MTS 25 RV 011	11	6,2 bars	489	978	47	72	63	2385	3,6
		5 bars	489	978	47	72	63	2385	3,6
MTS 25 RV 017	17	6,2 bars	295	591	77	119	105	2385	3,6
		5 bars	276	552	66	98	86	2191	3,6
MTS 25 RV 023	23	6,2 bars	242	484	108	158	139	2387	3,6
		5 bars	208	417	108	130	114	2191	3,6
MTS 25 RV 031	31	6,2 bars	146	291	98	140	123	2385	3,6
		5 bars	146	291	98	140	123	2385	3,6
MTS 25 RV 035	35	6,2 bars	137	273	134	198	174	2352	3,6
		5 bars	127	253	113	161	142	2196	3,6
MTS 25 RV 042	42	6,2 bars	114	228	161	237	209	2385	3,6
		5 bars	106	211	135	193	170	2191	3,6

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

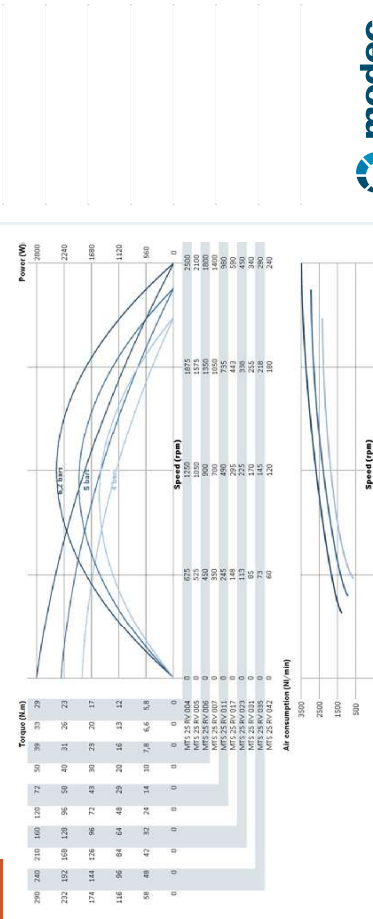
POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

MTS 25 XT



NOTES

MTS 25 RV



standard duty << 25 >> serie

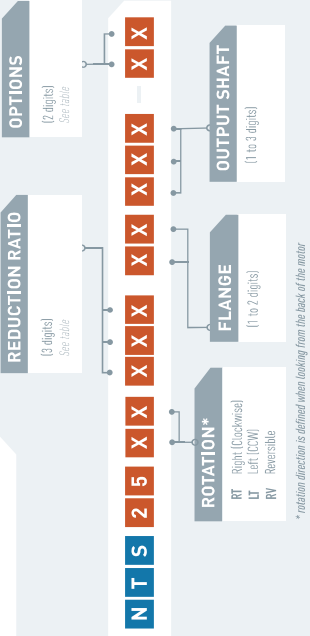
MOTORS NTS 25

POWER 2400-2700 W



NTS 25 XT

NTS 25 RV



OPTIONS AVAILABLE FOR THE NTS 25 XT

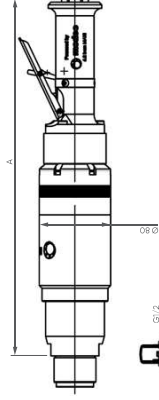
Collected exhaust																				
ATEX certification																				
Lubrication free																				
Kit start	00	01	02	04	05	07	09	10	13	14	21	22								
Code																				

OPTIONS AVAILABLE FOR THE NTS 25 RV

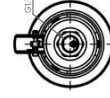
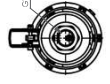
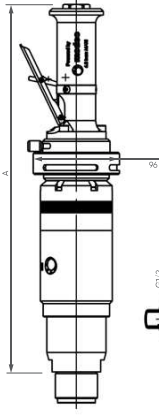
ATEX certification																				
Left/Right switch																				
Lubrication free																				
Kit start	00	01	02	04	05	07	09	10	13	14	21	22								
Code																				

LAYOUT

NTS 25 XT



NTS 25 RV



PERFORMANCES

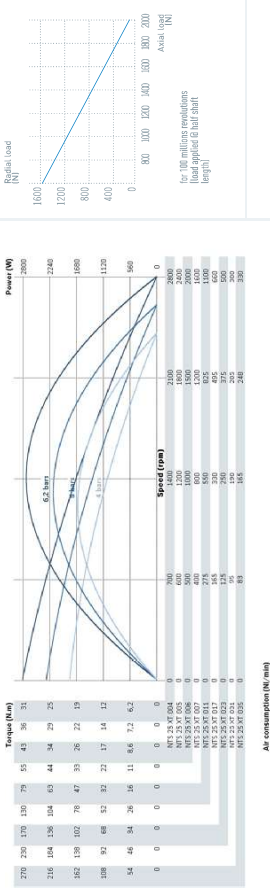
Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm)		Torque (N.m)		Air cons (Nl/min)		Dimensions		
			@ max Power	Free	@ max Power	Max (stall)	@ max Power	Max (stall)	A (mm)	Ø (mm)	Weight (kg)
NTS 25 XT 004	4	6,2 bars	1380	2759	19	31	28	2800	369,5	80	4,6
NTS 25 XT 005	5	4 bars	1185	2371	13	20	18	1800	369,5	80	4,6
NTS 25 XT 006	6	6,2 bars	1112	2225	22	36	32	2722	369,5	80	4,6
NTS 25 XT 007	7	4 bars	1000	2060	15	24	21	2174	369,5	80	4,6
NTS 25 XT 011	11	4 bars	677	1359	23	36	30	1644	369,5	80	4,6
NTS 25 XT 017	17	4 bars	471	941	51	45	45	1644	401,5	80	5,0
NTS 25 XT 023	23	4 bars	307	614	66	108	95	2129	401,5	80	5,0
NTS 25 XT 031	31	4 bars	183	376	138	203	203	2722	401,5	80	5,0
NTS 25 XT 035	35	4 bars	140	281	112	172	152	1644	401,5	80	5,0

Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm)		Torque (N.m)		Air cons (Nl/min)		Dimensions		
			@ max Power	Free	@ max Power	Max (stall)	@ max Power	Max (stall)	A (mm)	Ø (mm)	Weight (kg)
NTS 25 RV 004	4	6,2 bars	1232	2444	18	29	25	2385	380,5	80	5,0
NTS 25 RV 005	5	4 bars	1067	2135	13	19	17	1497	380,5	80	5,0
NTS 25 RV 006	6	6,2 bars	1000	2060	24	37	29	2385	380,5	80	5,0
NTS 25 RV 007	7	4 bars	927	1854	15	22	19	1697	380,5	80	5,0
NTS 25 RV 011	11	4 bars	607	1214	24	34	30	1497	380,5	80	5,0
NTS 25 RV 017	17	4 bars	409	815	47	52	52	2385	412,5	80	5,5
NTS 25 RV 023	23	4 bars	268	547	78	109	109	2385	412,5	80	5,5
NTS 25 RV 031	31	4 bars	168	336	136	209	184	2385	412,5	80	5,5
NTS 25 RV 035	35	4 bars	127	253	91	146	123	1497	412,5	80	5,5
NTS 25 RV 042	42	4 bars	114	237	81	137	117	1497	412,5	80	5,5

Data indicated in this table have an accuracy of ±4.5%

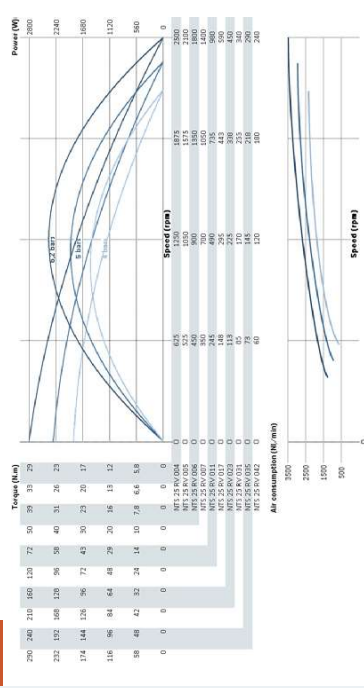
POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

NTS 25 XT



NOTES

NTS 25 RV



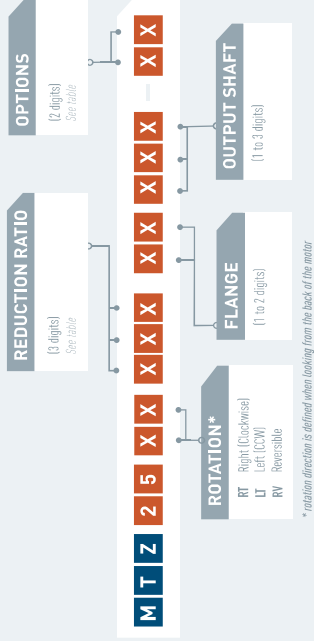
super heavy duty

« 25 » serie

MOTORS MTZ 25 POWER 2400-2700 W



MTZ 25



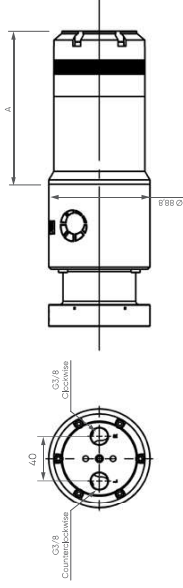
OPTIONS AVAILABLE FOR THIS MOTOR

Collected exhaust
ATEX certification
Left/Right switch*
Lubrication free
Kit start
Inox
Code

* Reversible motors only

00	01	02	03	04	05	07	09	10	11	12	13	14	16	17	21	22	23	27	28	29	30	36	37
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LAYOUT MTZ 25



POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

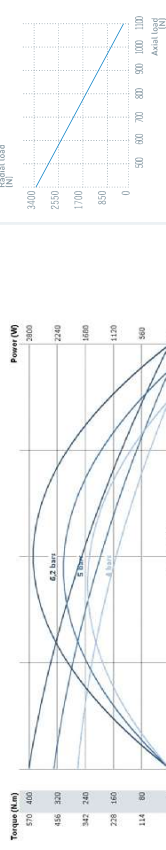
MTZ 25 XT

Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm)		Torque (N.m)		Max Power (W)	Air cons (Nl/min)	Dimensions		
			@ max Power	Free	@ max Power	Starting torque			A (mm)	θ (mm)	Weight (kg)
MTZ 25 XT 054	54	6,2 bars	104	208	399	351	2715	2800	136,1	88,8	6,1
MTZ 25 XT 077	77	6,2 bars	98	195	206	328	2105	2300	136,1	88,8	6,1
		4 bars	91	181	170	260	1614	1800			
		6,2 bars	73	145	271	312	2105	2500			
		4 bars	63	244	327	1614	1800				

MTZ 25 RV

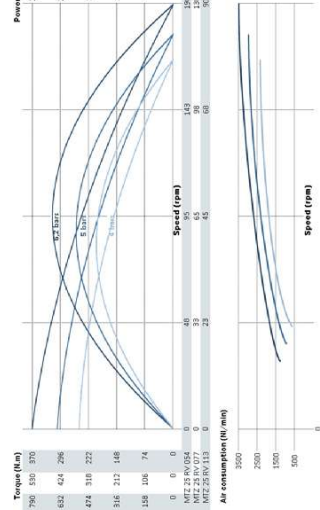
Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm)		Torque (N.m)		Max Power (W)	Air cons (Nl/min)	Dimensions		
			@ max Power	Free	@ max Power	Starting torque			A (mm)	θ (mm)	Weight (kg)
MTZ 25 RV 054	54	6,2 bars	95	189	242	372	2395	2700	177,2	88,8	6,4
MTZ 25 RV 077	77	6,2 bars	88	176	207	306	1909	2200	177,2	88,8	6,4
		4 bars	83	165	175	248	1512	1700			
		6,2 bars	66	132	347	533	2395	2700			
		4 bars	58	115	251	395	1512	1700			
		6,2 bars	45	90	511	785	2395	2700			
MTZ 25 RV 113	113	5 bars	42	83	437	646	1909	2200			
		4 bars	39	78	369	523	1512	1700			

Data indicated in this table have an accuracy of ± 5%



NOTES

MTZ 25 RV



super heavy duty

« 25 » serie

MOTORS NTZ 25

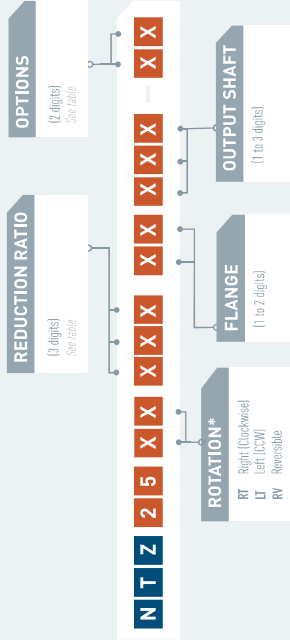
POWER 2400-2700 W



NTZ 25 XT



NTZ 25 RV



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

PERFORMANCES

Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm)			Torque (N.m)			Max Power (W)	Air cons (lN/min)	Dimensions		
			@ max Power	Free	Start	@ max Power	Max (static)	Starting torque			A (mm)	θ (mm)	Weight (kg)
NTZ 25 XT 054	54	6,2 bars	104	208	399	372	327	2395	2700	2800	320,6	88,8	6,8
			98	195	328	306	269	1919	2200	2300			
			91	181	260	248	218	1512	1700	1800			
NTZ 25 XT 077	77	6,2 bars	145	290	540	523	438	3979	4200	4500	320,6	88,8	6,8
			138	276	470	468	386	3199	3500	3800			
			127	244	372	372	327	2395	2700	2800			
NTZ 25 RV	Reduction ratio	Air supply pressure	Speed (rpm)			Torque (N.m)			Max Power (W)	Air cons (lN/min)	Dimensions		
			@ max Power	Free	Start	@ max Power	Max (static)	Starting torque			A (mm)	θ (mm)	Weight (kg)
			95	189	372	372	327	2395	2700	2800	320,6	88,8	7,3
NTZ 25 RV 054	54	6,2 bars	88	176	306	306	269	1919	2200	2300			
			83	165	248	248	218	1512	1700	1800			
			77	151	218	218	186	1286	1400	1500			
NTZ 25 RV 077	77	6,2 bars	123	246	468	468	386	3199	3500	3800	320,6	88,8	7,3
			115	251	385	385	313	2395	2700	2800			
			90	211	295	295	248	1919	2200	2300			
NTZ 25 RV 113	113	6,2 bars	42	83	165	165	139	1286	1400	1500	361,7	88,8	7,6
			42	83	165	165	139	1286	1400	1500			
			37	78	139	139	116	1012	1100	1200			

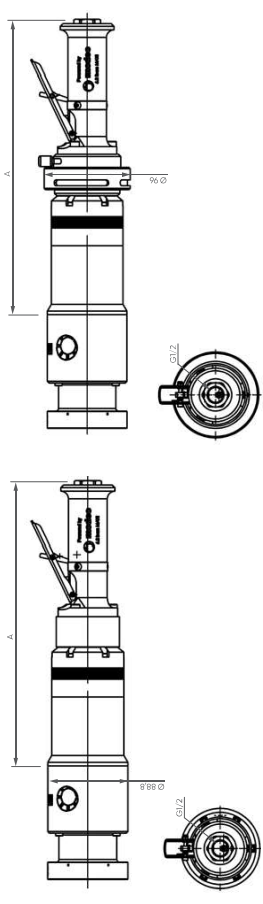
Data indicated in this table have an accuracy of ± 5%

OPTIONS AVAILABLE FOR THE NTZ 25 XT					OPTIONS AVAILABLE FOR THE NTZ 25 RV									
Collected exhaust	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	ATEX certification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
ATEX certification	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Left/Right switch	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Lubrication free	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Lubrication free	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Kit start	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	Kit start	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>					
Code	00	01	02	04	05	07	09	10	13	14	21	22	29	30

LAYOUT

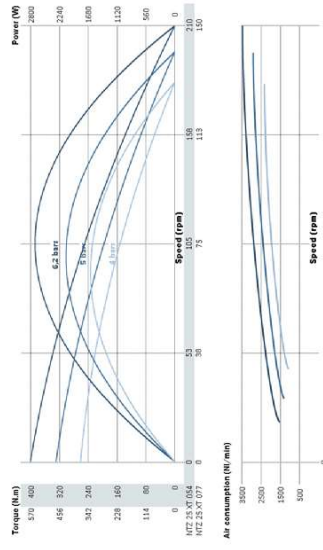
NTZ 25 XT

NTZ 25 RV

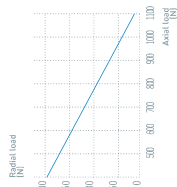


POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

NTZ 25 XT

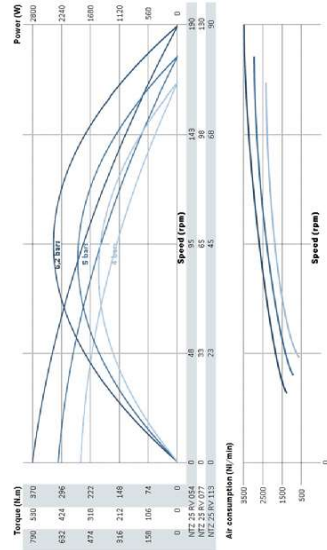


MAXIMUM RADIAL & AXIAL LOAD



NOTES

NTZ 25 RV



MOTORS MRS 25

POWER 2300-2700 W



MRS 25



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

PERFORMANCES

MRS 25 XT Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm)			Torque (N.m)			Air cons (Nl/min)	Max Power (W)	Air cons (Nl/min)	Dimensions	
			@ max Power	Free	@ max Power	Max (Istatl)	Starting torque	A (mm)				Ø (mm)	Weight (kg)
MRS 25 XT 005	5,5	6,2 bars	1030	2040	25	40	35	2664	2800	278,5	80	4,9	
MRS 25 XT 006	6,4	6,2 bars	883	1765	17	25	22	1549	1800	278,5	80	4,9	
MRS 25 XT 008	8	6,2 bars	691	1383	13	19	16	954	1100	278,5	80	4,9	
MRS 25 XT 010	10	6,2 bars	544	1085	10	14	11	750	800	278,5	80	4,9	
MRS 25 XT 014	14	6,2 bars	409	818	7,5	10	8,5	549	600	278,5	80	4,9	
MRS 25 XT 023	23	6,2 bars	229	457	4,5	5,5	4,5	315	350	310,5	80	5,2	

MRS 25 RV	Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm)			Torque (N.m)			Air cons (Nl/min)	Max Power (W)	Air cons (Nl/min)	Dimensions	
				@ max Power	Free	@ max Power	Max (Istatl)	Starting torque	A (mm)				Ø (mm)	Weight (kg)
MRS 25 RV 005	MRS 25 RV 005	5,5	6,2 bars	920	1841	23	33	2256	2700	278,5	80	4,9		
MRS 25 RV 006	MRS 25 RV 006	6,4	6,2 bars	800	1599	27	38	1717	2000	278,5	80	4,9		
MRS 25 RV 008	MRS 25 RV 008	8	6,2 bars	624	1268	26	34	1171	1700	278,5	80	4,9		
MRS 25 RV 010	MRS 25 RV 010	10	6,2 bars	465	922	27	40	846	1000	278,5	80	4,9		
MRS 25 RV 014	MRS 25 RV 014	14	6,2 bars	342	684	48	70	611	700	278,5	80	4,9		
MRS 25 RV 023	MRS 25 RV 023	23	6,2 bars	206	413	79	115	407	450	310,5	80	5,2		

Data indicated in this table have an accuracy of 4-5%

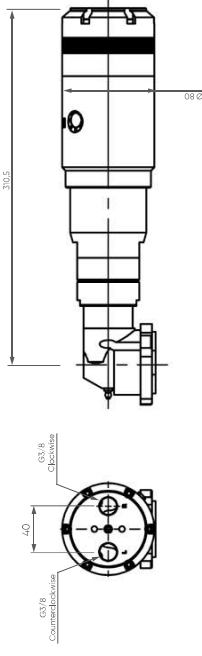
OPTIONS AVAILABLE FOR THIS MOTOR

Code	00	01	02	03	04	05	07	09	10	12	13	14	16	17	21	22	29	30
Collected exhaust																		
ATEX certification																		
LED/light switch*																		
Lubrication free																		
Kit start																		

* Reversible motors only

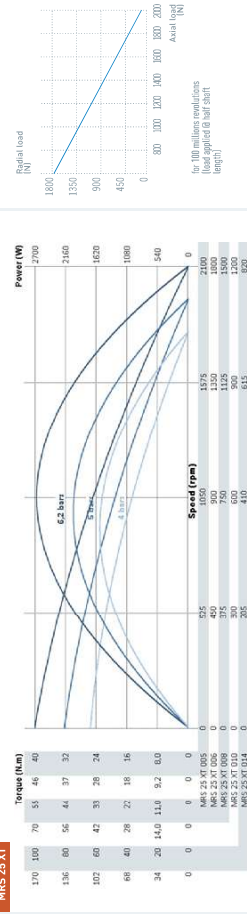
LAYOUT

MRS 25

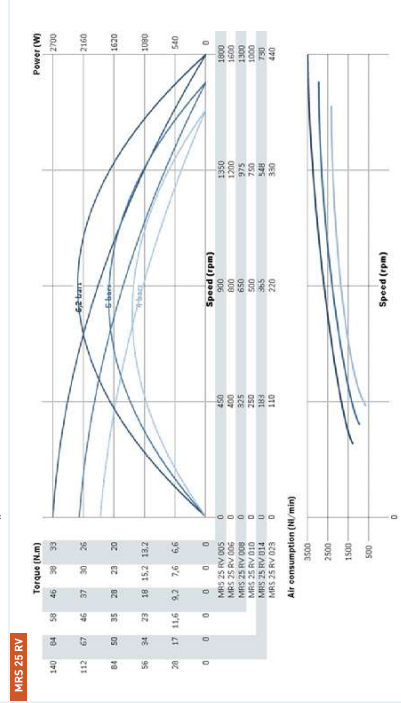


POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

MRS 25 XT



NOTES



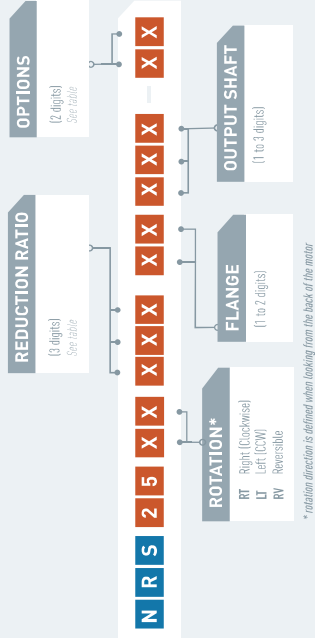
MOTORS NRS 25

POWER 2300-2700 W



NRS 25 XT

NRS 25 RV



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

PERFORMANCES

NRS 25 XT	Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm)			Torque (N.m)			Air cons (NI/min)	Dimensions		
				@ max Power	Free	Max (stall)	@ max Power	Starting torque	Max (stall)		A (mm)	Ø (mm)	
NRS 25 XT 005		5,5	6,2 bars	1030	791,0	40	26,66	28,60	2800	2800	6,0	80	6,0
NRS 25 XT 006		6,4	5 bars	895	1770	25	20,35	22,00	2800	2800	6,0	80	6,0
NRS 25 XT 008		8	6,2 bars	691	1383	28	20,35	23,00	2800	2800	6,0	80	6,0
NRS 25 XT 010		10	6,2 bars	502	1004	39	15,49	18,00	2800	2800	6,0	80	6,0
NRS 25 XT 014		14	6,2 bars	379	757	51	10,35	12,00	2800	2800	6,0	80	6,0
NRS 25 XT 023		23	6,2 bars	229	457	85	6,46	7,60	2800	2800	6,4	80	6,4

NRS 25 RV	Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm)			Torque (N.m)			Air cons (NI/min)	Dimensions		
				@ max Power	Free	Max (stall)	@ max Power	Starting torque	Max (stall)		A (mm)	Ø (mm)	
NRS 25 RV 005		5,5	6,2 bars	920	1841	33	22,56	27,00	2700	2700	6,2	80	6,2
NRS 25 RV 006		6,4	5 bars	748	1465	22	17,17	20,00	2700	2700	6,2	80	6,2
NRS 25 RV 008		8	6,2 bars	657	1335	35	12,99	17,00	2700	2700	6,2	80	6,2
NRS 25 RV 010		10	6,2 bars	490	979	43	9,43	11,20	2700	2700	6,2	80	6,2
NRS 25 RV 014		14	6,2 bars	345	691	61	6,61	7,70	2700	2700	6,2	80	6,2
NRS 25 RV 023		23	6,2 bars	206	413	79	4,13	4,90	2700	2700	6,6	80	6,6

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

OPTIONS AVAILABLE FOR THE NRS 25 XT

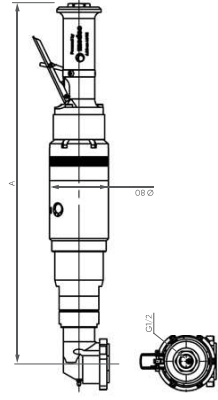
Collected exhaust	<input type="checkbox"/>	00	01	02	04	05	07	09	10	13	14	21	22
ATEX certification	<input type="checkbox"/>	00	01	02	04	05	07	09	10	13	14	21	22
Lubrication free	<input type="checkbox"/>	00	01	02	04	05	07	09	10	13	14	21	22
Kit start	<input type="checkbox"/>	00	01	02	04	05	07	09	10	13	14	21	22
Code		00	01	02	04	05	07	09	10	13	14	21	22

OPTIONS AVAILABLE FOR THE NRS 25 RV

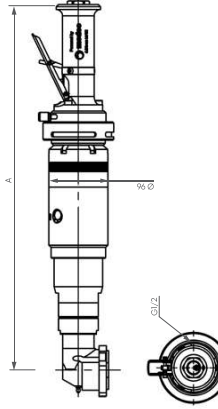
ATEX certification	<input type="checkbox"/>	00	01	02	04	05	07	09	10	13	14	21	22
Left/Right switch	<input type="checkbox"/>	00	01	02	04	05	07	09	10	13	14	21	22
Lubrication free	<input type="checkbox"/>	00	01	02	04	05	07	09	10	13	14	21	22
Kit start	<input type="checkbox"/>	00	01	02	04	05	07	09	10	13	14	21	22
Code		00	01	02	04	05	07	09	10	13	14	21	22

LAYOUT

NRS 25 XT

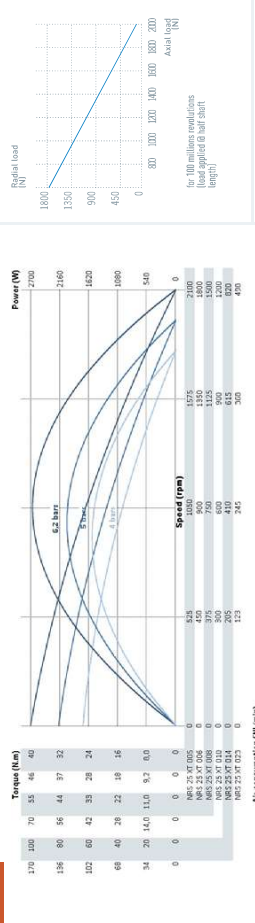


NRS 25 RV



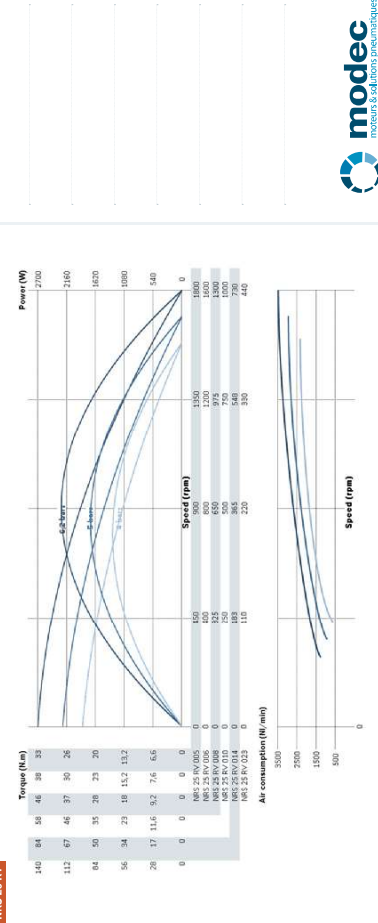
POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

NRS 25 XT



NOTES

NRS 25 RV



heavy duty

super heavy duty

« 25 » serie

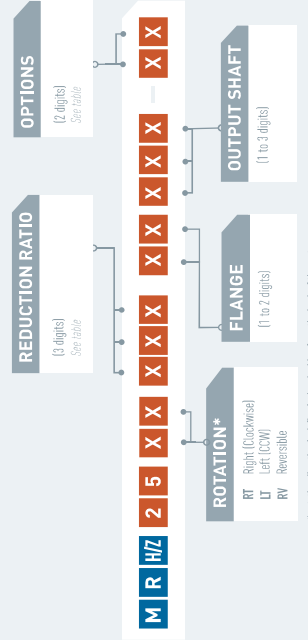
MOTORS MRH 25 / MRZ 25

POWER 2300-2700 W



MRH 25

MRZ 25

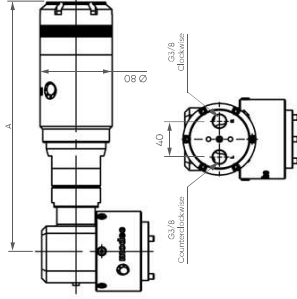


OPTIONS AVAILABLE FOR THIS MOTOR

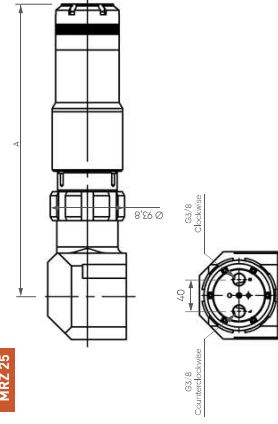
Collected exhaust	00	01	02	03	04	05	07	09	10	12	13	14	16	17	21	22	29	30
ATEX certification																		
LED/light switch*																		
Lubrication free																		
Kit start																		
Code																		

* Reversible motors only

MRH 25



MRZ 25



POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

MRH/Z 25 XT

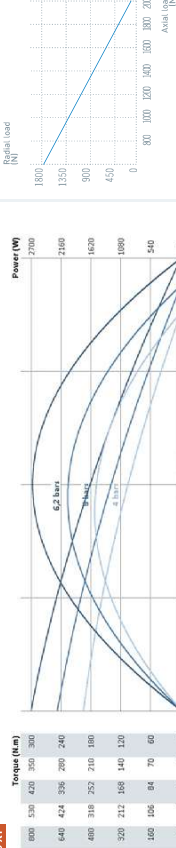
Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm)		Torque (N.m)		Max Power (W)	Air cons (Nl/min)	Dimensions		
			@ max Power	Free	@ max Power	Max (stall)			A (mm)	Ø (mm)	Weight (kg)
MRH 25 XT 041	41	6,2 bars	160	279	302	245	2672	2800	277	80	6,7
MRH 25 XT 047	47	4 bars	122	244	248	219	1543	2300	277	80	6,7
MRH 25 XT 056	56	6,2 bars	101	203	252	416	2672	2800	277	80	6,7
MRH 25 XT 071	71	4 bars	89	177	205	343	2036	2300	277	80	6,7
MRZ 25 XT 107	107	6,2 bars	50	97	463	797	2672	2800	371,7	88,8	12,2

MRH/Z 25 RV

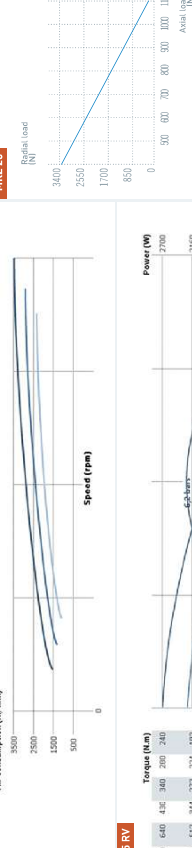
Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm)		Torque (N.m)		Max Power (W)	Air cons (Nl/min)	Dimensions		
			@ max Power	Free	@ max Power	Max (stall)			A (mm)	Ø (mm)	Weight (kg)
MRH 25 RV 041	41	6,2 bars	176	251	244	214	2256	2700	277	80	6,7
MRH 25 RV 047	47	4 bars	117	225	188	148	1299	1700	277	80	6,7
MRH 25 RV 056	56	6,2 bars	102	218	197	281	247	2256	277	80	6,7
MRH 25 RV 071	71	4 bars	96	192	229	354	1700	2200	277	80	6,7
MRZ 25 RV 154	154	6,2 bars	31	55	529	748	2200	2700	371,7	88,8	12,2

Data indicated in this table have an accuracy of ± 5%

MRH 25



MRZ 25



NOTES



heavy duty

super heavy duty

« 25 » serie

MOTORS NRH 25 / NRZ 25

POWER 2300-2700 W

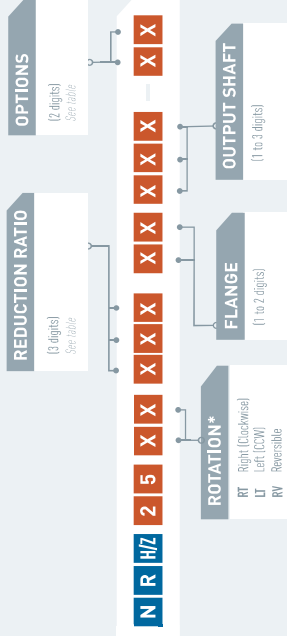


NRH 25 XT

NRH 25 RV

NRZ 25 XT

NRZ 25 RV



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

PERFORMANCES

NRH/Z 25 XT	Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm)		Torque (N.m)		Max Power (W)	Air cons (Nl/min)	Dimensions			
				@ max Power	Free	@ max Power	Max (Istall)			A (mm)	Ø (mm)	Weight (kg)	
NRH 25 XT 041	NRH 25 XT 041	41	6,2 bars	160	279	302	245	2672	2800	461,5	80	7,7	
				131	262	248	219	2036	2300				
				122	244	196	173	1563	1800				
				121	243	347	305	2672	2800				
NRH 25 XT 047	NRH 25 XT 047	47	6,2 bars	106	212	226	192	1563	1800	461,5	80	7,7	
				104	212	226	192	1563	1800				
				101	203	252	416	2672	2800				
				95	190	205	343	301	2036	2300			
NRH 25 XT 056	NRH 25 XT 056	56	6,2 bars	89	159	164	143	1043	1200	461,5	80	7,7	
				87	159	164	143	1043	1200				
				86	159	164	143	1043	1200				
				75	149	211	384	2036	2300				
NRH 25 XT 071	NRH 25 XT 071	71	6,2 bars	70	139	212	345	304	1563	1800	461,5	80	7,7
				69	139	212	345	304	1563	1800			
				62	106	463	797	701	2672	2800			
				53	106	463	797	701	2672	2800			
NRZ 25 XT 107	NRZ 25 XT 107	107	4 bars	30	97	316	519	1543	1800	556,2	88,8	13,2	
				46	92	316	519	1543	1800				

NRH/Z 25 RV	Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm)		Torque (N.m)		Max Power (W)	Air cons (Nl/min)	Dimensions		
				@ max Power	Free	@ max Power	Max (Istall)			A (mm)	Ø (mm)	Weight (kg)
NRH 25 RV 041	NRH 25 RV 041	41	6,2 bars	126	251	244	214	2256	2700	472,5	80	8,1
				117	245	188	168	1999	1700			
				117	245	188	168	1999	1700			
				109	218	197	281	247	2256	2700		
NRH 25 RV 047	NRH 25 RV 047	47	6,2 bars	102	204	161	233	205	1717	472,5	80	8,1
				96	192	229	354	170	1299	1700		
				94	192	229	354	170	1299	1700		
				85	170	153	280	246	1717	2200		
NRH 25 RV 056	NRH 25 RV 056	56	6,2 bars	80	160	155	232	204	1299	472,5	80	8,1
				80	160	155	232	204	1299	1700		
				71	143	302	428	377	2256	2700		
				67	144	199	356	346	1999	1700		
NRH 25 RV 071	NRH 25 RV 071	71	6,2 bars	64	130	199	306	246	1299	472,5	80	8,1
				64	130	199	306	246	1299	1700		
				49	95	453	644	567	2256	2700		
				44	89	369	536	472	1717	2200		
NRZ 25 RV 107	NRZ 25 RV 107	107	4 bars	84	297	445	891	299	1700	567,2	88,8	13,6
				84	297	445	891	299	1700			
				61	65	529	743	672	1717	2200		
				31	65	529	743	672	1717	2200		
NRZ 25 RV 154	NRZ 25 RV 154	154	4 bars	29	58	425	637	1299	1700	567,2	88,8	13,6
				29	58	425	637	1299	1700			

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

OPTIONS AVAILABLE FOR THE NRH /Z 25 XT

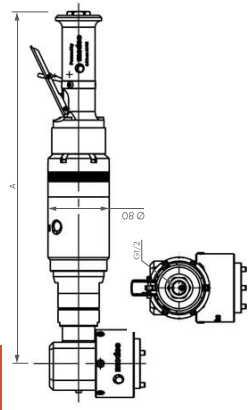
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ATEX certification	<input type="checkbox"/>
Lubrication free	<input type="checkbox"/>
Kit start	<input type="checkbox"/>
Code	00 01 02 04 05 07 09 10 13 14 21 22

OPTIONS AVAILABLE FOR THE NRH /Z 25 RV

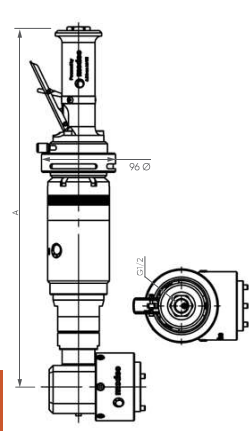
ATEX certification	<input type="checkbox"/>
Left/right switch	<input type="checkbox"/>
Lubrication free	<input type="checkbox"/>
Kit start	<input type="checkbox"/>
Code	03 12 16 17 29 30

LAYOUT

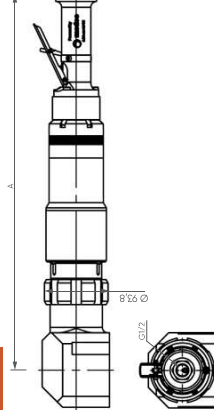
NRH 25 XT



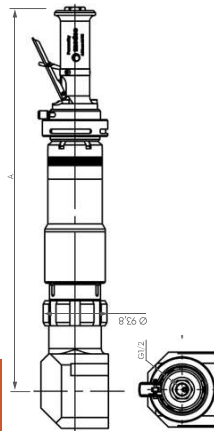
NRH 25 RV



NRZ 25 XT

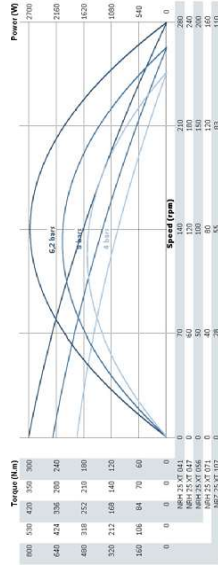


NRZ 25 RV

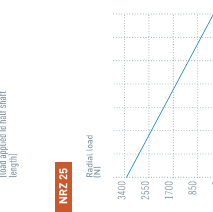


POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

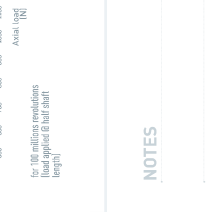
NRH/Z 25 XT



NRZ 25



NRZ 25 RV



NOTES



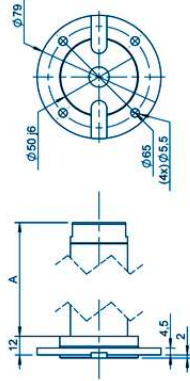
FLANGES & SHAFTS

Coupling the motor on your machine is as critical as choosing the right motor ! With Modéc, 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.

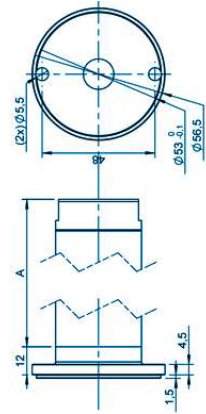
FLANGES & SHAFTS GROUP I

MTE 05 MTS 05

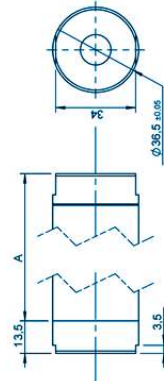
GROUP I FLANGE AA



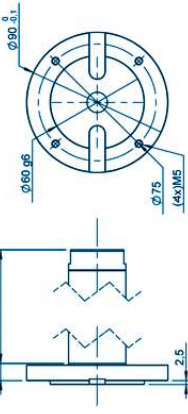
GROUP I FLANGE B



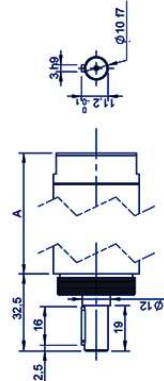
GROUP I FLANGE P



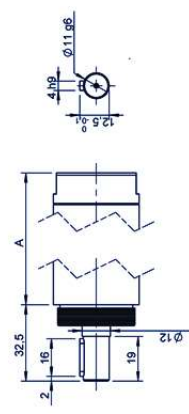
GROUP I FLANGE S - IEC63B14



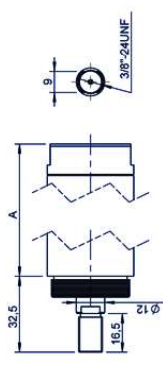
GROUP I SHAFT CL1 - KEYED Ø10



GROUP I SHAFT CL2 - KEYED Ø11 - IEC63B14



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

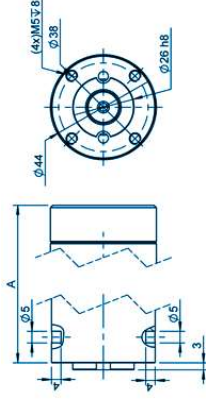


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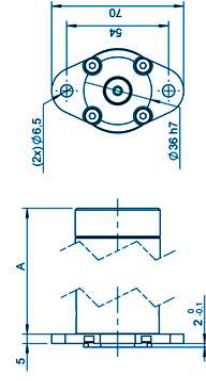
FLANGES & SHAFTS GROUP II (1/2)

MTE 07 MTS 07

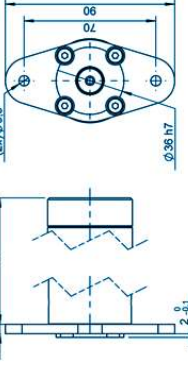
GROUP II FLANGE AA



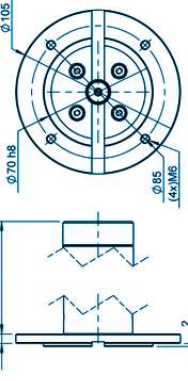
GROUP II FLANGE AB



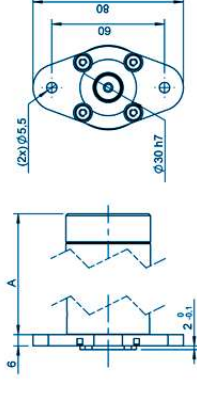
GROUP II FLANGE AC



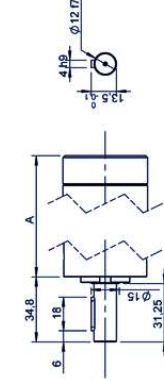
GROUP II FLANGE AD - IEC 71B14



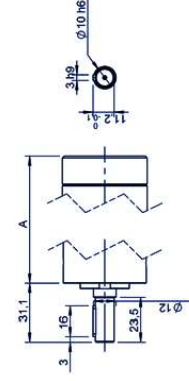
GROUP II FLANGE AE



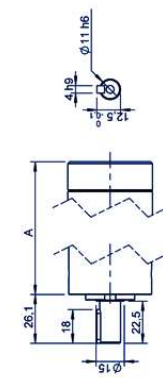
GROUP II SHAFT 001 - KEYED Ø12



GROUP II SHAFT 004 - KEYED Ø10



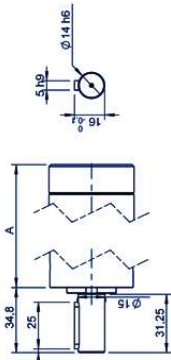
GROUP II SHAFT 006 - KEYED Ø11



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

MTE 07 MTS 07

GROUP II SHAFT S01 - KEYED Ø14 - IEC 71B14

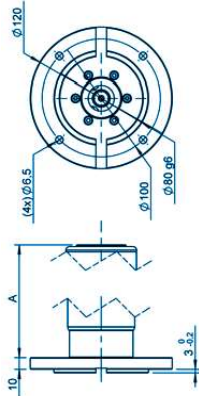


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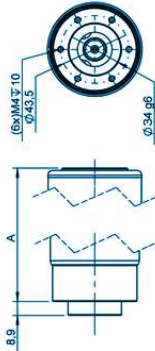
FLANGES & SHAFTS **GROUP III**

XTE 08 XTE 10 XTE 20 XTE 25

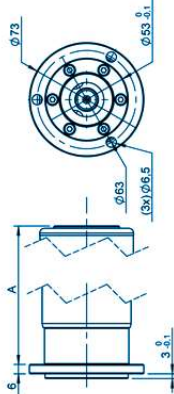
GROUP III FLANGE AB - IEC 80B14



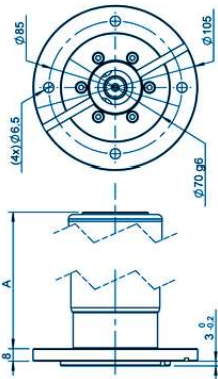
GROUP III FLANGE AA



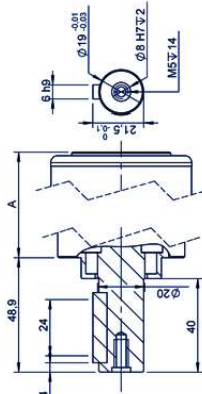
GROUP III FLANGE B



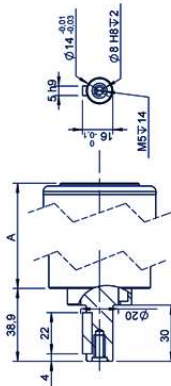
GROUP III FLANGE FJ - IEC 71B14



GROUP III SHAFT 001 - KEYED Ø19 - IEC 80B14



GROUP III SHAFT C25 - KEYED Ø14 - IEC 71B14



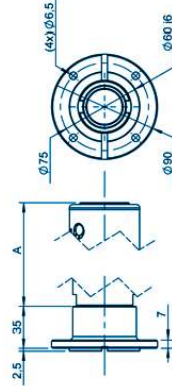
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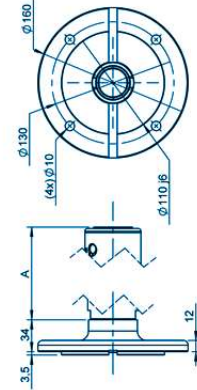
FLANGES **GROUP IV** (1/3)

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

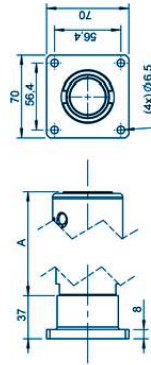
GROUP IV FLANGE AB - IEC43B14



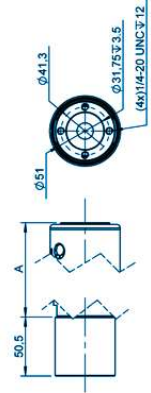
GROUP IV FLANGE AC - IEC71B5



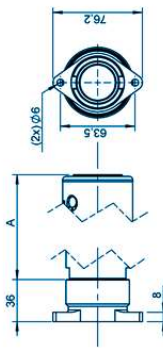
GROUP IV FLANGE AF



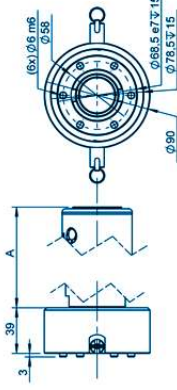
GROUP IV FLANGE AH



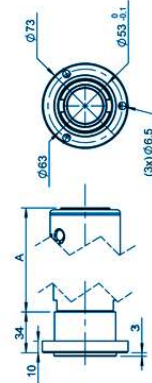
GROUP IV FLANGE AS



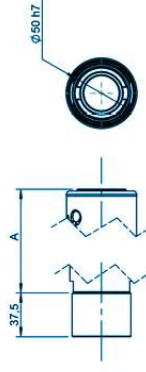
GROUP IV FLANGE AX - ARP



GROUP IV FLANGE B



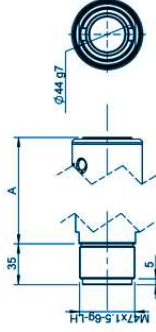
GROUP IV FLANGE B0



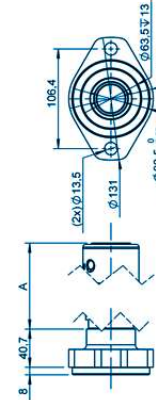
FLANGES **GROUP IV** (2/3)

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

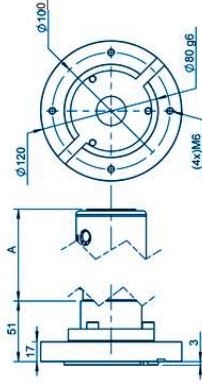
GROUP IV FLANGE F



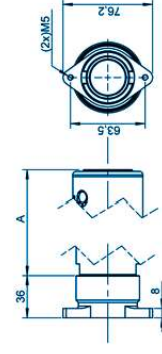
GROUP IV FLANGE FH



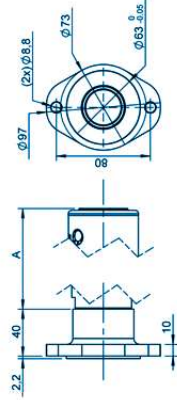
GROUP IV FLANGE FJ - IEC80B14



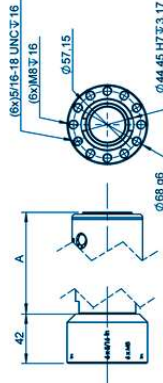
GROUP IV FLANGE J



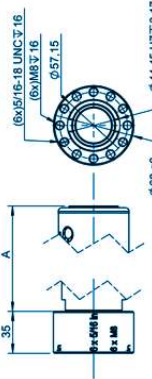
GROUP IV FLANGE L



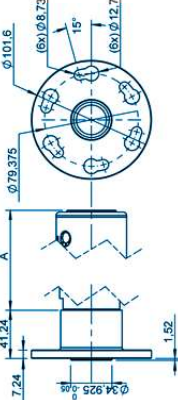
GROUP IV FLANGE M



GROUP IV FLANGE N



GROUP IV FLANGE Q



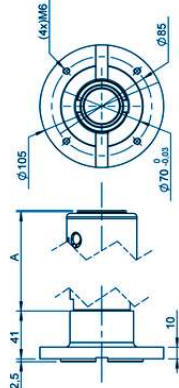
FLANGES **GROUP IV** (3/3)

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

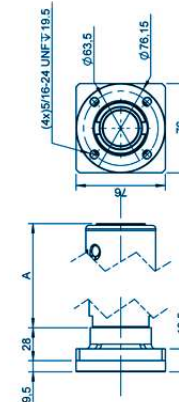
SHAFTS **GROUP IV** (2/3)

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

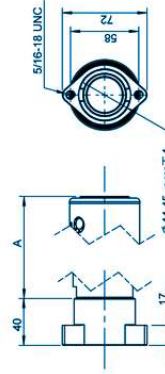
GROUP IV FLANGER - IEC71B14



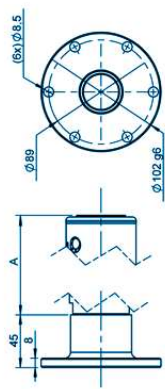
GROUP IV FLANGE S



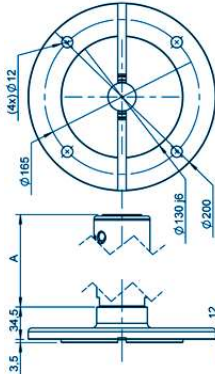
GROUP IV FLANGE U



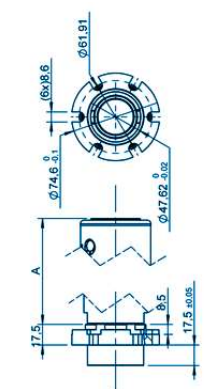
GROUP IV FLANGE V



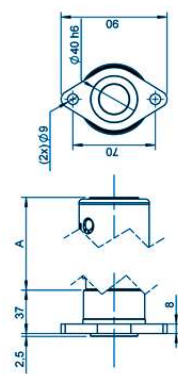
GROUP IV FLANGE W - IEC80B5



GROUP IV FLANGE Y

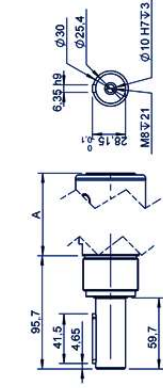


GROUP IV FLANGE Z

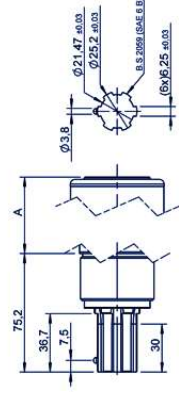


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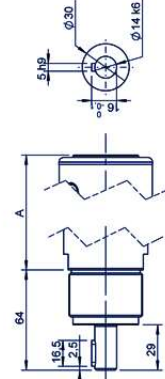
GROUP IV SHAFT 007 - KEYED Ø1"



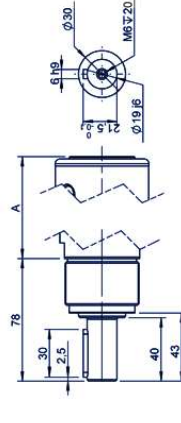
GROUP IV SHAFT 019 - SPLINED ARP



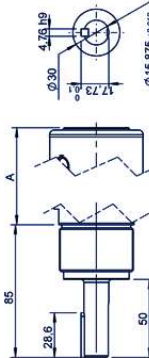
GROUP IV SHAFT C11 - KEYED Ø14 - IEC71B14



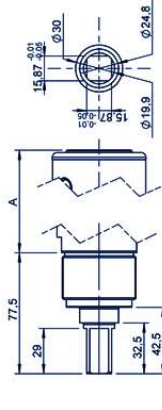
GROUP IV SHAFT C12 - KEYED Ø19 - IEC80B5 - IEC80B14



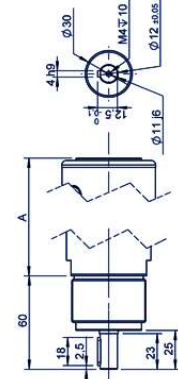
GROUP IV SHAFT C15 - KEYED Ø5/8"



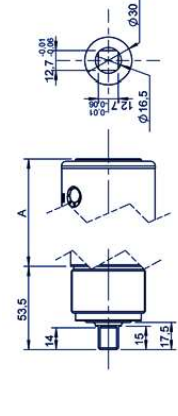
GROUP IV SHAFT C16 - SQUARE Ø5/8"



GROUP IV SHAFT C19 - KEYED Ø11 - IEC43B14



GROUP IV SHAFT CA1 - SQUARE Ø1/2"

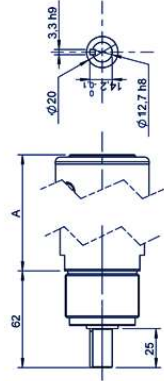


SHAFTS **GROUP IV** (2/3)

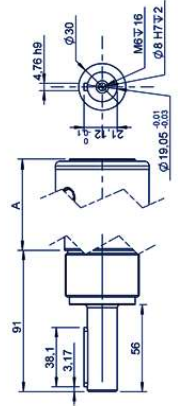
SHAFTS **GROUP IV** (3/3)

- XTH 05
- XTH 07
- XTH 08
- XTH 10
- XTH 10
- XTH 10
- XTH 20
- XTH 25

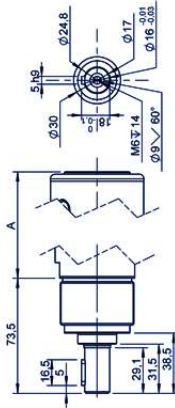
GROUP IV SHAFT CL1 - KEYED Ø1/2"



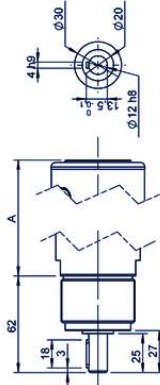
GROUP IV SHAFT CL2 - KEYED Ø3/4"



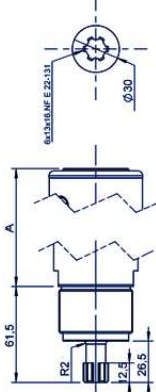
GROUP IV SHAFT CL6 - KEYED Ø16



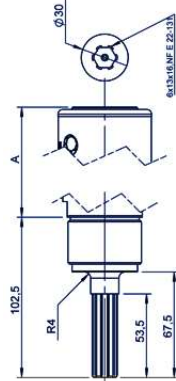
GROUP IV SHAFT CL9 - KEYED Ø12



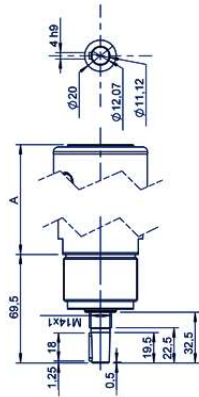
GROUP IV SHAFT CNC - SPLINED SHORT



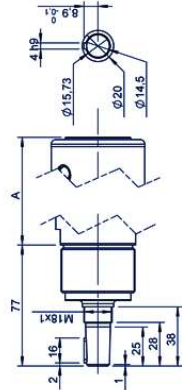
GROUP IV SHAFT CNL - SPLINED LONG



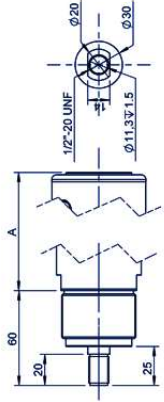
GROUP IV SHAFT CONICAL B12



GROUP IV SHAFT CONICAL B16



GROUP IV SHAFT F11 - THREADED Ø1/2"

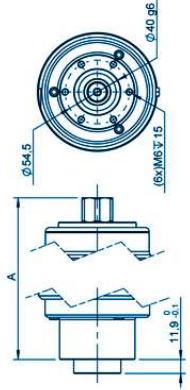


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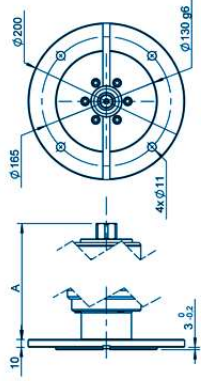
FLANGES & SHAFTS **GROUP V**

XTE 30

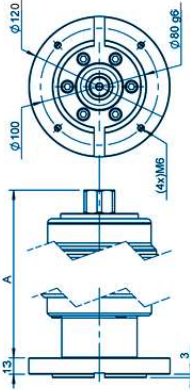
GROUP V FLANGE AA



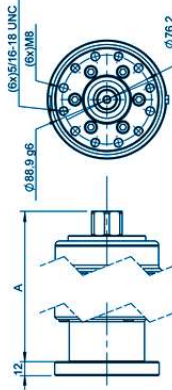
GROUP V FLANGE AB - IEC 80B5 - IEC 90B5



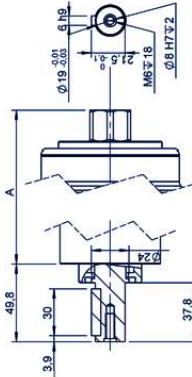
GROUP V FLANGE AC - IEC 80B14



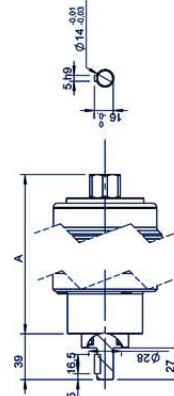
GROUP V FLANGE B



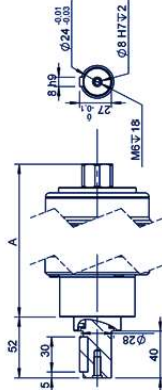
GROUP V SHAFT 001 - KEYED Ø19 - IEC 80B14 - IEC80B5



GROUP V SHAFT 002 - KEYED Ø14



GROUP V SHAFT CL6 - KEYED Ø24 - IEC 90B5

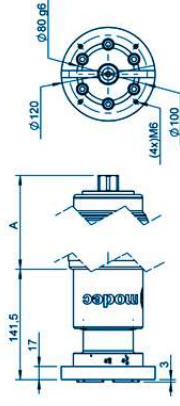


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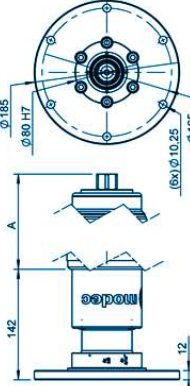
FLANGES **GROUP VI**

XTZ 08 XTZ 10 XTZ 20 XTZ 25 XTS 30

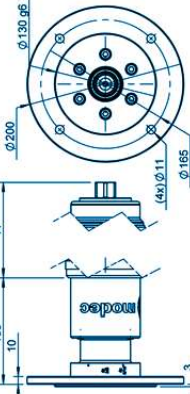
GROUP VI FLANGE AB - IEC80B14



GROUP VI FLANGE AA



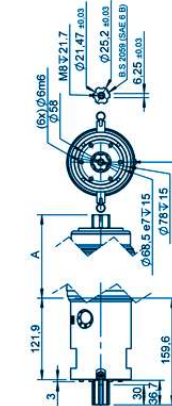
GROUP VI FLANGE AG - IEC80B5



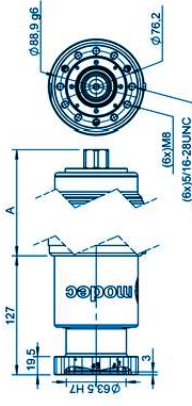
GROUP VI FLANGE AL



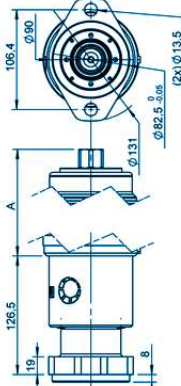
GROUP VI FLANGE AI WITH SHAFT CNW



GROUP VI FLANGE B



GROUP VI FLANGE H

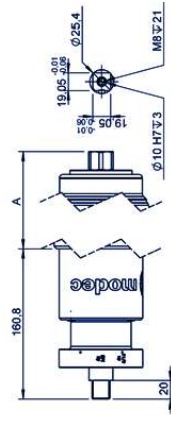


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SHAFTS GROUP VI

- XITZ 08 XITZ 10 XITZ 20 XITZ 25 XITZ 30

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

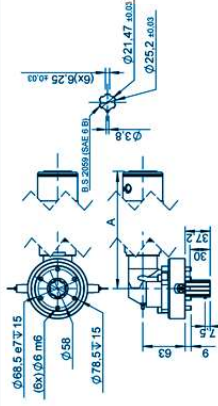
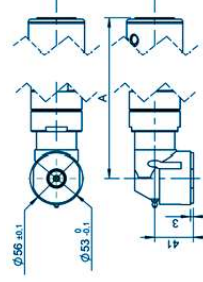


GROUP VI SHAFT CA1 - SQUARE 3/4"

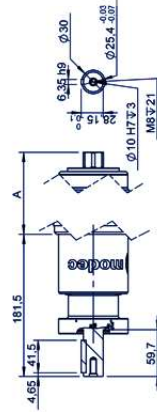
FLANGES GROUP VII

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

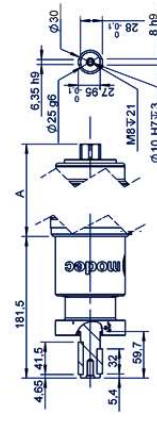
GROUP VII FLANGE AF



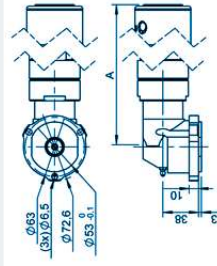
GROUP VI SHAFT CL2 - KEYED Ø1"



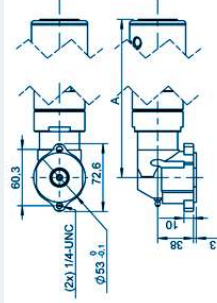
GROUP VI SHAFT CL4 - KEYED Ø25



GROUP VII FLANGE B

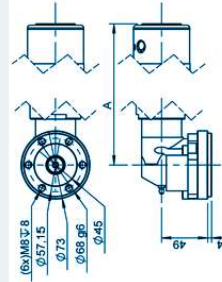


GROUP VII FLANGE E

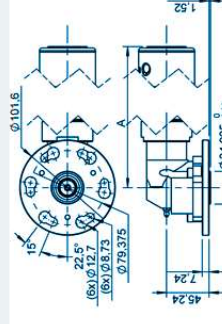


You didn't find
your match ?
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GROUP VII FLANGE M



GROUP VII FLANGE Q

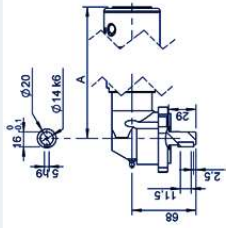


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your match ?
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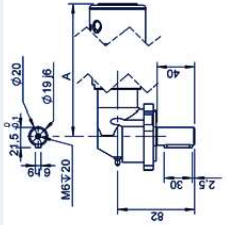
SHAFTS **GROUP VII** (1/2)

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

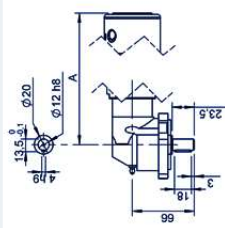
GROUP VII SHAFT 021 - KEYED Ø14



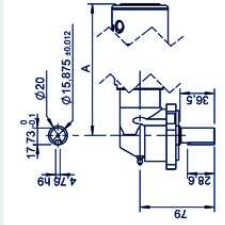
GROUP VII SHAFT C12 - KEYED Ø19



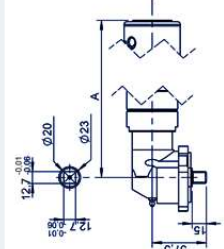
GROUP VII SHAFT C13 - KEYED Ø12



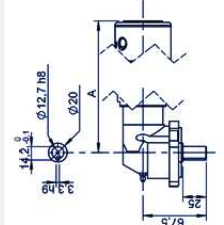
GROUP VII SHAFT C14 - KEYED Ø5/8"



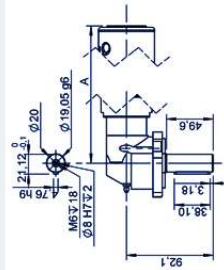
GROUP VII SHAFT CA1 - SQUARE 1/2"



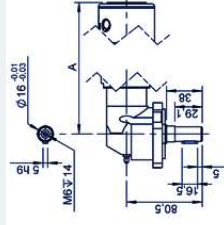
GROUP VII SHAFT CL1 - KEYED Ø1/2"



GROUP VII SHAFT CL2 - KEYED Ø3/4"



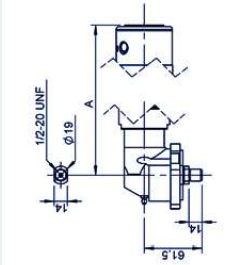
GROUP VII SHAFT CL6 - KEYED Ø16



SHAFTS **GROUP VII** (2/2)

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

GROUP VII SHAFT F11 - THREADED Ø1/2"

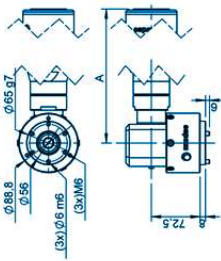


You didn't find your match ?
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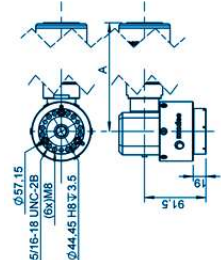
FLANGES **GROUP VIII**

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

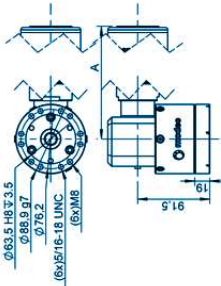
GROUP VIII FLANGE AA



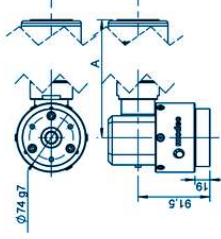
GROUP VIII FLANGE AB



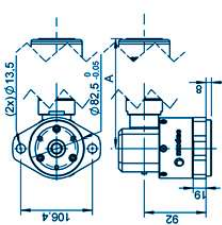
GROUP VIII FLANGE AC



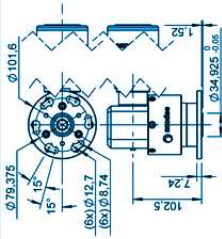
GROUP VIII FLANGE AD



GROUP VIII FLANGE AE



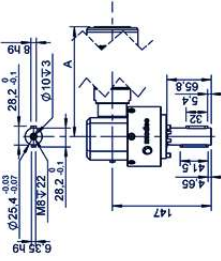
GROUP VIII FLANGE Q



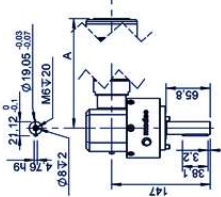
SHAFTS **GROUP VIII**

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

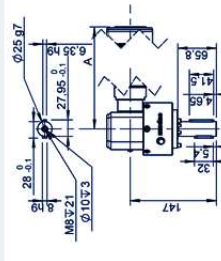
GROUP VIII SHAFT 001 - KEYED Ø1"



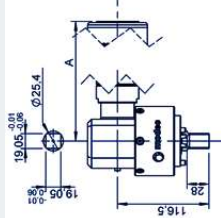
GROUP VIII SHAFT 002 - KEYED Ø3/4"



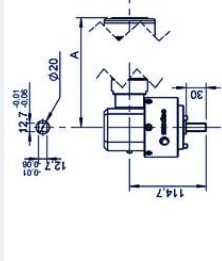
GROUP VIII SHAFT 003 - KEYED Ø25



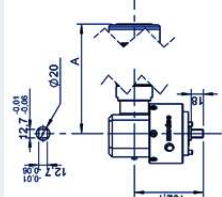
GROUP VIII SHAFT 004 - SQUARE 3/4"



GROUP VIII SHAFT 005 - SQUARE 1/2" LONG

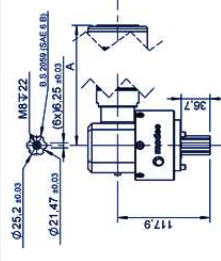


GROUP VIII SHAFT CA1 - SQUARE 1/2" SHORT



You didn't find your match ?
Contact us !

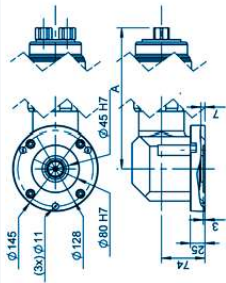
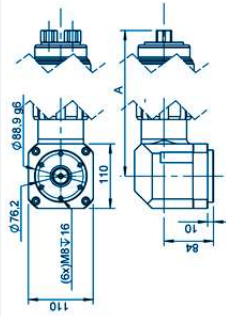
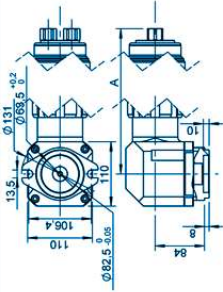
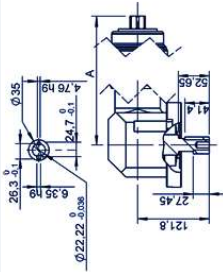
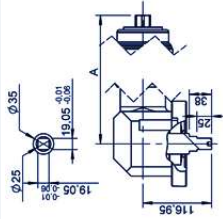
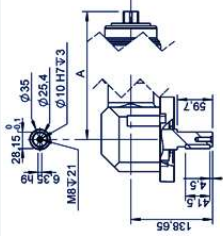
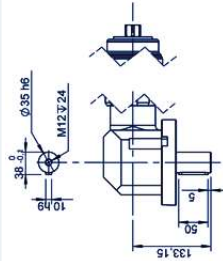
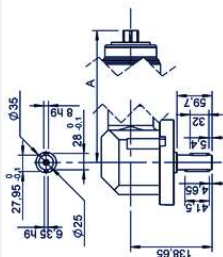
GROUP VIII SHAFT CNW - SPLINED



You didn't find your match ?
Contact us !

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 07/8"

GROUP IX SHAFT 003 - KEYED 03/4"

GROUP IX SHAFT CL2 - KEYED 01"

GROUP IX SHAFT CL3 - KEYED 035

GROUP IX SHAFT CL4 - KEYED 025

 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	01	02	03	09	10	11	12	13	14
Collected exhaust	■	■	■	■	■	■	■	■	■
ATEX certification	■	■	■	■	■	■	■	■	■
Left/Right switch*	■	■	■	■	■	■	■	■	■
Lubrication free	■	■	■	■	■	■	■	■	■
Kit start	■	■	■	■	■	■	■	■	■
Speed control**	■	■	■	■	■	■	■	■	■
Inox	■	■	■	■	■	■	■	■	■

*ATEX certification only **Non reversible motors only

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).



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

I 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 T4...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 cleanliness 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 : MODOC 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 cm ³	80 cm ³	181 cm ³
Filtration	5 µm	5 µm	5 µm
Purge system	Semi-auto	Semi-auto	Semi-auto
Connection	G 1/4	G 1/4	G 1/4
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	2,2 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.

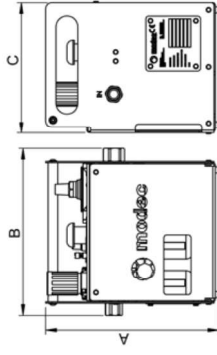
All these safety features are energized by air pressure, without any other source of energy required. This makes it possible to have it ATEX certified on request.

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 workdays and workbenches use.



PNEUMATIC OIL modec CO-16

Lubricating oil specially selected for modec air motors and actuators

- Synthetic oil**
- : 22cSt
 - Kinematic viscosity at 40°C : 145
 - Viscosity index : 824kg/m³
 - Voluminal mass : +210°C
 - Flash point : -55°C
 - Pour point : -55°C/130°C
 - Temperature of use : 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 3/3 distribution valve anymore.



Series	Safety handles	Progressive control handles	Left / Right switch
08 RT	AC415	AC417	N/A
08 RV	AC416	AC418	N/A
10 XT	AC406	AC408	N/A
10 RV	AC404	AC406	AC429
20 RT	AC403	AC405	AC430
20 RV	AC405	AC407	N/A
25 RT	AC412	AC410	AC431
25 RV	AC411	AC409	AC432
30 RT	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

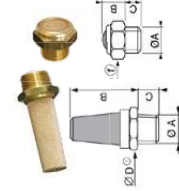
1 • STANDARD EXHAUST SILENCERS

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

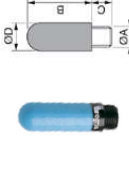


Reference	AC169	AC168	AC180	AC181	AC164	AC182
Operating pressure	p → 10 bars					
Ambient temperature	-10°C → +80°C					
Connection (DA)	G 1/4	G 1/4	G 1/4	G 1/4	G 1/2	G 1/4
Dimensions (B x C x Ø) (mm)	10 x 6 x 13	22,4 x 5,6 x 13	41,6 x 8,4 x 16	49,2 x 8,8 x 24	54,6 x 11,4 x 27	82,3 x 12,7 x 36
Weight	6 g	10 g	30 g	30 g	70 g	300 g
Suitable for motors	Refer to table p.101					

Alu metallic silencer (AC169): Stainless steel body, Nickel plated brass connection piece.

Other metallic silencers : Pnious bronze body, brass connection piece.

• PLASTIC SILENCERS



Reference	AC166	AC150	AC183	AC184	AC182	AC153
Operating pressure	0 → 10 bars					
Ambient temperature	-10°C → +80°C					
Connection (DA)	G 1/4	G 1/4	G 1/4	G 1/4	G 1/4	G 1/4
Dimensions (B x C x Ø) (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 43
Weight	2 g	4 g	6 g	10 g	40 g	65 g
Suitable for motors	Refer to table p.101					

Polycarbonate body, technical polymer connection piece.

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.



Zinc-plated steel diaphragm body, brass sieve

Reference	AC167	AC154	AC155	AC158	AC156	AC157
Operating pressure	0 → 14 bars					
Ambient temperature	-20°C → +110°C					
Connection	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"
Dimensions (A x B x C) (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					

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.



Filter element : fibrous texture bonded by a plastic resin. Sealed by a rubber gasket.

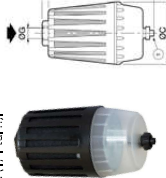
Reference	AC158	AC159	AC160
Operating pressure	0 → 10 bars		
Ambient temperature	-40°C → +145°C		
Connection	6 1/2"	6 1/4"	6 1/4"
Dimensions (A x B x C) (mm)	152 x 80	183 x 85	222 x 98
Weight	340	450 g	590 g
Suitable for motors	Refer to table p.181		

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.

Condensate 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 (Ø)	6 1/2"	6 1/4"	6 1/4"
Dimensions (A x B x C) (mm)	12 x 180 x 90	12 x 180 x 90	15 x 250 x 110
Weight	600	560 g	1070 g
Suitable for motors	Refer to table p.181		

1. 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.



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.

Reference	AC170	AC171	AC172	AC173
Operating pressure	0 → 10 bars			
Ambient temperature	-10°C → + 80°C			
Connection (Ø)	6 1/4"	6 1/4"	6 1/4"	6 1/4"
Dimensions (B x C D x E F) (mm)	15 x 13 x 6	18 x 15 x 7 x	24 x 20 x 8 x	30 x 23 x 10 x
Weight	5g	10g	30g	50g
Suitable for motors	« 05 »	« 07 »	« 08 »	« 10 » « 20 » « 25 » « 30 »

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 all 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	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"
Air supply connection	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"	6 1/4"
Dimension (A x B)	50.8 x 20.6	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	82.6 x 41.4
Weight	5g	10g	15g	15g	25g	25g	25g
Suitable for motors	"05"	"07"	"08"	"10"	"10"	"10"	"25"

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

5. AIR MOTORS / SILENCERS CORRESPONDENCE TABLE AND POWER IMPACT

	05	07	08	10XT	10RV	20 XT	20 RV	25	30
Size	Exhaust: G1/8 Inlet: G1/8	Exhaust: G1/4 Inlet: G1/8	Exhaust: G3/8 Inlet: G3/8	Exhaust: G3/4 Inlet: G3/4	Exhaust: G3/4 Inlet: G3/4	Exhaust: G3/4 Inlet: G3/4	Exhaust: G3/4 Inlet: G3/4	Exhaust: G3/4 Inlet: G3/4	Exhaust: G3/4 Inlet: G3/4
Power impact	AC166 -14%	AC165 -10%	AC164 -10%	AC163 -10%	AC162 -10%	AC161 -10%	AC160 -10%	AC159 -10%	AC158 -10%
Reference	AC168 AC169	AC167 AC169	AC166 AC169	AC165 AC169	AC164 AC169	AC163 AC169	AC162 AC169	AC161 AC169	AC160 AC169
Power impact	-14%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Reference	AC167 AC167	AC166 AC166	AC165 AC165	AC164 AC164	AC163 AC163	AC162 AC162	AC161 AC161	AC160 AC160	AC159 AC159
Power impact	-14%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Reference	AC168 AC168	AC167 AC167	AC166 AC166	AC165 AC165	AC164 AC164	AC163 AC163	AC162 AC162	AC161 AC161	AC160 AC160
Power impact	-14%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%
Reference	AC168 AC168	AC167 AC167	AC166 AC166	AC165 AC165	AC164 AC164	AC163 AC163	AC162 AC162	AC161 AC161	AC160 AC160
Power impact	-14%	-10%	-10%	-10%	-10%	-10%	-10%	-10%	-10%

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)	Ø7	Ø3	Ø3	Ø3
Connection	6 1/4"	6 1/4"	6 1/4"	6 1/4"
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 T2500 product data sheet on page 70.

| SPECIAL MOTORS

Flexibility, Expertise 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!

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