AIR MOTORS CATALOGUE

modec
moteurs & solutions pneumatiques

08 SERIE

modec
moteurs & solutions pneumatiques

MAX POWER
710 W
MAX TORQUE
730 Nm

"08" series air motors **exist in many versions**, straight shaft or right angle drive, with or without integrated control handle, and with many different flanges and output shafts available as standard.

That air motor is also **available with 4 types of integrated gearboxes, enabling it to adapt to many different applications**, whether high speed is required (Easy duty), good balance between speed and torque (Standard duty) or high torque and robustness is mandatory (Heavy duty and Super Heavy duty).

With a maximum power of 700 W, **it is one of the most versatile air motors in the range.**

ACCESSORIES FOR THIS MOTOR		Reference
Filtration, pressure Regulation and Lubrication unit (FRL)		AC107
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 "08" series	AC302
	Maintenance kit for lube free "08" series	AC312
	Maintenance kit for kit start "08" series	AC322
Control handles		
	Safety control handle for non reversible motor	AC415
	Safety control handle for reversible motor	AC416
	Progressive control handle for non reversible motor	AC417
	Progressive control handle for reversible motor	AC418
modec Oil Co-16		AC149
Filters and silencers		
	Metallic standard exhaust silencer	AC181
	Metallic standard inlet silencer	AC180
	Plastic standard exhaust silencer	AC183
	Plastic standard inlet silencer	AC150
	Heavy duty exhaust silencer	AC155
	Heavy duty inlet silencer	AC154
	Speed control muffler	AC172
	High flow air muffler	AC158
	Exhaust silencer filter	AC165

CONNECTION AND LUBRICATION

Min. fittings Ø		Min. pipe Ø		Lubrification (6,2 bars)
In	Out	In	Out	
7 mm / 0,3 In	10 mm / 0,4 In	9 mm / 0,4 In	13 mm / 0,5 In	4 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

MTE/NTE 08
MTS 08
NTS 08
MTH 08
MTZ 08
NTH 08
NTZ 08
MRS 08
NRS 08
MRH 08
MRZ 08
NRH 08
NRZ 08
TRS 08

MOTOR MTE/NTE 08

POWER 460-700 W

REDUCTION RATIO	OPTIONS
(3 digits) *See table*	(2 digits) *See table*

X	T	E	0	8	X	X	X	X	X	X	X	X	X	X	X	X

ROTATION*	FLANGE	OUTPUT SHAFT
RT Right (Clockwise) LT Left (CCW) RV Reversible	(1 to 2 digits)	(1 to 3 digits)

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

PERFORMANCES

MTE/NTE 08 Air motor reference	Reduction ratio	Air supply pressure	Speed (rpm) @ max Power	Speed (rpm) Free	Torque (N.m) @ max Power	Torque (N.m) Max (stall)	Torque (N.m) Starting torque	Max Power (W)	Air cons (Nl/min)	Dimensions A (mm)	Dimensions Ø (mm)	Dimensions Weight (kg)
MTE 08 XT 001	001	6,2 bars	9200	18400	0,72	1,2	1,1	700	1000	135	54	1,1
		5 bars	8300	16600	0,61	1,0	0,88	530	850			
		4 bars	7500	15000	0,50	0,77	0,68	390	650			
MTE 08 RV 001	001	6,2 bars	9200	18300	0,74	1,1	0,82	700	950	135	54	1,1
		5 bars	8400	16800	0,62	1,0	0,72	540	750			
		4 bars	7600	15300	0,49	0,80	0,61	390	600			
NTE 08 XT 001	001	6,2 bars	8000	16000	0,57	1,1	0,96	480	900	174,1	54	1,4
		5 bars	7200	14400	0,48	0,88	0,77	360	750			
		4 bars	6500	13000	0,40	0,68	0,60	270	600			
NTE 08 RV 001	001	6,2 bars	7600	15200	0,58	0,92	0,81	460	950	317,1	57	1,9
		5 bars	6700	13400	0,49	0,79	0,70	340	750			
		4 bars	6000	12000	0,40	0,67	0,59	250	600			

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

OPTIONS AVAILABLE FOR THE MTE 08

Collected exhaust	▸		▸	▸	▸	▸				▸	▸	▸	▸	▸			▸	▸
ATEX certification			▸				▸			▸	▸	▸			▸	▸	▸	▸
Left/Right switch*		▸					▸	▸	▸						▸	▸		
Lubrication free				▸				▸		▸			▸		▸		▸	
Kit start					▸				▸		▸					▸		▸
Stainless steel						▸						▸	▸	▸			▸	▸
Code	01	03	07	09	10	11	12	16	17	21	22	23	27	28	29	30	36	37

OPTIONS DISPONIBLES POUR LE NTE 08 XT

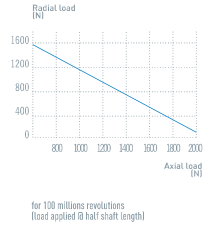
Collected exhaust	▸	▸	▸	▸	▸	▸	▸
ATEX certification		▸			▸	▸	
Lubrication free			▸		▸		
Kit start				▸			▸
Code	01	07	09	10	21	22	

OPTIONS DISPONIBLES POUR LE NTE 08 RV

ATEX		▸			▸	▸
Left/Right switch*	▸	▸	▸	▸	▸	▸
Lubrication free			▸		▸	
Kit start				▸		▸
Code	03	12	16	17	29	30

** Reversible motors only*

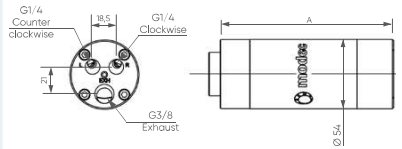
MAXIMUM RADIAL & AXIAL LOAD



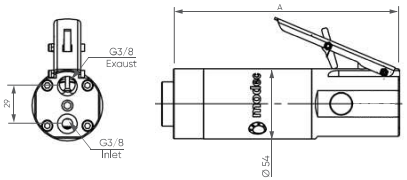
for 100 millions revolutions (load applied @ half shaft length)

LAYOUT

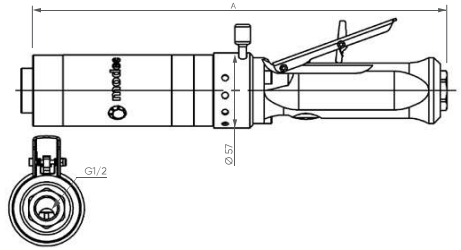
MTE 08



NTE 08 XT

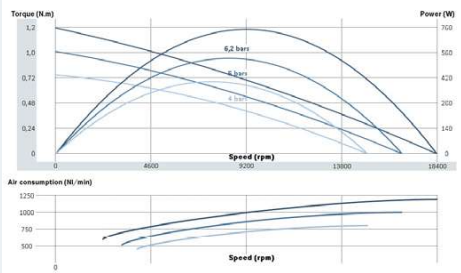


NTE 08 RV

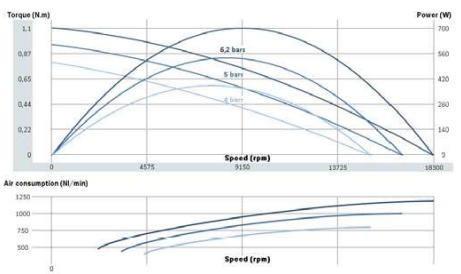


POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

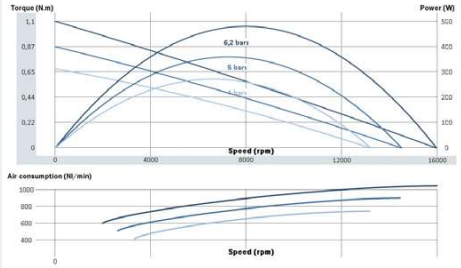
MTE 08 XT



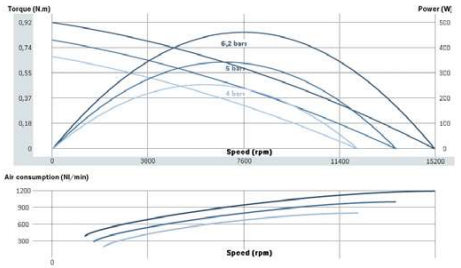
MTE 08 RV



NTE 08 XT



NTE 08 RV



NOTES

modec
moteurs & solutions pneumatiques

« 08 » serie
easy duty

MOTOR MTS 08

POWER 590-710 W

MTS 08

REDUCTION RATIO	OPTIONS
(3 digits) See table	(2 digits) See table

M	T	S	0	8	X	X	X	X	X	X	X	X	X	X	X	X

ROTATION*	FLANGE	OUTPUT SHAFT
RT Right (Clockwise) LT Left (CCW) RV Reversible	(1 to 2 digits)	(1 to 3 digits)

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

PERFORMANCES

MTS 08 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 08 XT 005	5	6,2 bars	1914	3828	3,4	5,9	5,2	689	1000	136,9	54	1,7
		5 bars	1731	3462	2,9	4,8	4,2	531	850			
		4 bars	1560	3120	2,4	3,7	3,3	392	650			
MTS 08 XT 006	6	6,2 bars	1598	3196	4,1	7,1	6,2	689	1000	136,9	54	1,7
		5 bars	1445	2890	3,5	5,8	5,1	531	850			
		4 bars	1302	2604	2,9	4,4	3,9	392	650			
MTS 08 XT 007	7	6,2 bars	1254	2507	5,3	9,0	7,9	689	1000	136,9	54	1,7
		5 bars	1134	2267	4,5	7,3	6,5	531	850			
		4 bars	1022	2043	3,7	5,6	5,0	392	650			
MTS 08 XT 011	11	6,2 bars	875	1750	7,5	13	11	689	1000	136,9	54	1,7
		5 bars	791	1583	6,4	11	9,2	531	850			
		4 bars	713	1426	5,3	8,1	7,1	392	650			
MTS 08 XT 023	23	6,2 bars	416	832	14	25	22	628	1000	163,9	54	2,0
		5 bars	381	762	12	20	18	477	850			
		4 bars	346	691	10	16	14	358	650			
MTS 08 XT 028	28	6,2 bars	347	694	17	30	27	628	1000	163,9	54	2,0
		5 bars	318	636	14	24	21	477	850			
		4 bars	289	577	12	19	16	358	650			
MTS 08 XT 035	35	6,2 bars	272	545	22	39	34	628	1000	163,9	54	2,0
		5 bars	249	499	18	31	27	477	850			
		4 bars	226	453	15	24	21	358	650			
MTS 08 XT 042	42	6,2 bars	227	455	26	47	41	628	1000	163,9	54	2,0
		5 bars	208	416	22	37	33	477	850			
		4 bars	189	378	18	28	25	358	650			
MTS 08 XT 054	54	6,2 bars	178	357	34	59	52	628	1000	163,9	54	2,0
		5 bars	163	327	28	47	42	477	850			
		4 bars	148	297	23	36	32	358	650			
MTS 08 XT 060	60	6,2 bars	159	317	38	67	59	628	1000	163,9	54	2,0
		5 bars	145	291	31	53	47	477	850			
		4 bars	132	264	26	41	36	358	650			
MTS 08 XT 077	77	6,2 bars	125	249	48	85	75	628	1000	163,9	54	2,0
		5 bars	114	228	40	68	60	477	850			
		4 bars	104	207	33	52	46	358	650			
MTS 08 XT 111	111	6,2 bars	86	173	65	124	109	588	1000	187,9	54	2,3
		5 bars	80	159	54	101	89	453	850			
		4 bars	71	143	45	80	71	336	650			
MTS 08 XT 132	132	6,2 bars	72	144	78	148	130	588	1000	187,9	54	2,3
		5 bars	67	133	65	121	106	453	850			
		4 bars	60	119	54	96	84	336	650			

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

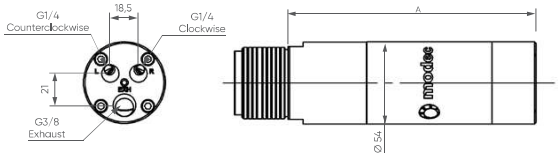
OPTIONS AVAILABLE FOR THIS MOTOR

Code	01	03	07	09	10	12	16	17	21	22	29	30
Collected exhaust	▶		▶	▶	▶				▶	▶		
ATEX certification			▶			▶			▶	▶	▶	▶
Left/Right switch*		▶				▶	▶	▶			▶	▶
Lubrication free				▶			▶		▶		▶	
Kit start					▶			▶		▶		▶

* Reversible motors only

LAYOUT

MTS 08



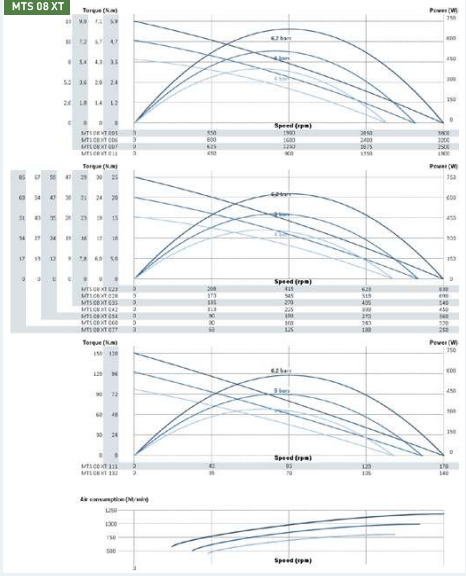
PERFORMANCES

MTS 08 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 08 RV 005	5	6,2 bars	1908	3816	3,6	5,2	3,9	712	950	136,9	54	1,7
		5 bars	1746	3492	3,0	4,6	3,4	543	750			
		4 bars	1590	3181	2,3	3,8	2,9	388	600			
MTS 08 RV 006	6	6,2 bars	1593	3186	4,3	6,3	4,7	712	950	136,9	54	1,7
		5 bars	1458	2915	3,6	5,5	4,1	543	750			
		4 bars	1328	2655	2,8	4,6	3,5	388	600			
MTS 08 RV 007	7	6,2 bars	1250	2499	5,4	8,0	6,0	712	950	136,9	54	1,7
		5 bars	1144	2287	4,5	7,0	5,3	543	750			
		4 bars	1041	2083	3,6	5,9	4,5	388	600			
MTS 08 RV 011	11	6,2 bars	872	1745	7,8	11	8,6	712	950	136,9	54	1,7
		5 bars	798	1597	6,5	10	7,5	543	750			
		4 bars	727	1454	5,1	8,4	6,4	388	600			
MTS 08 RV 023	23	6,2 bars	394	788	15	22	21	636	950	163,9	54	2,0
		5 bars	362	725	13	19	16	483	750			
		4 bars	334	668	10	15	14	366	600			
MTS 08 RV 028	28	6,2 bars	329	658	18	27	25	636	950	163,9	54	2,0
		5 bars	303	605	15	22	20	483	750			
		4 bars	279	558	13	18	17	366	600			
MTS 08 RV 035	35	6,2 bars	258	516	24	34	32	636	950	163,9	54	2,0
		5 bars	237	475	19	28	25	483	750			
		4 bars	219	438	16	23	21	366	600			
MTS 08 RV 042	42	6,2 bars	215	431	28	41	38	636	950	163,9	54	2,0
		5 bars	198	396	23	34	30	483	750			
		4 bars	183	365	19	28	26	366	600			
MTS 08 RV 054	54	6,2 bars	169	338	36	52	48	636	950	163,9	54	2,0
		5 bars	155	311	30	43	38	483	750			
		4 bars	143	286	24	36	33	366	600			
MTS 08 RV 060	60	6,2 bars	150	301	40	59	54	636	950	163,9	54	2,0
		5 bars	138	277	33	49	43	483	750			
		4 bars	127	255	27	40	37	366	600			
MTS 08 RV 077	77	6,2 bars	118	236	52	75	69	636	950	163,9	54	2,0
		5 bars	109	217	43	62	55	483	750			
		4 bars	100	200	35	51	47	366	600			
MTS 08 RV 111	111	6,2 bars	82	164	74	108	99	636	950	187,9	54	2,3
		5 bars	76	151	61	89	79	483	750			
		4 bars	70	139	50	73	68	366	600			
MTS 08 RV 132	132	6,2 bars	69	137	89	129	119	636	950	187,9	54	2,3
		5 bars	63	126	73	107	95	483	750			
		4 bars	58	116	60	88	81	366	600			
MTS 08 RV 159	159	6,2 bars	57	114	106	155	142	636	950	187,9	54	2,3
		5 bars	53	105	88	128	113	483	750			
		4 bars	48	97	72	105	97	366	600			
MTS 08 RV 169	169	6,2 bars	54	108	113	165	151	636	950	187,9	54	2,3
		5 bars	49	99	93	136	121	483	750			
		4 bars	46	91	77	112	103	366	600			

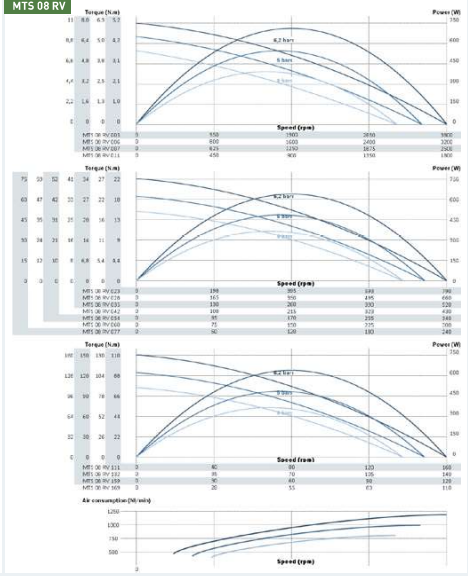
Data indicated in this table have an accuracy of +/- 5%

POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

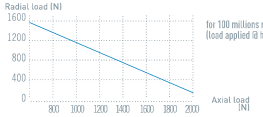
MTS 08 XT



MTS 08 RV



MAXIMUM RADIAL & AXIAL LOAD



modec
moteurs & solutions pneumatiques

MOTOR NTS 08

POWER 460-480 W

REDUCTION RATIO (3 digits) *See table*

OPTIONS (2 digits) *See table*

N T S 0 8 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

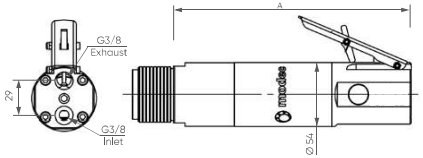
PERFORMANCES

NTS 08 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)
NTS 08 XT 005	5	6,2 bars	1670	3340	2,8	5,2	4,6	481	900	176	54	2
		5 bars	1501	3002	2,3	4,2	3,7	362	750			
		4 bars	1368	2735	1,9	3,3	2,9	272	600			
NTS 08 XT 006	6	6,2 bars	1394	2788	3,3	6,3	5,5	481	900	176	54	2
		5 bars	1253	2506	2,8	5,1	4,5	362	750			
		4 bars	1142	2283	2,3	3,9	3,5	272	600			
NTS 08 XT 007	7	6,2 bars	1093	2187	4,2	8,0	7,0	481	900	176	54	2
		5 bars	983	1966	3,5	6,5	5,7	362	750			
		4 bars	895	1791	2,9	5,0	4,4	272	600			
NTS 08 XT 011	11	6,2 bars	763	1527	6,0	11	10	481	900	176	54	2
		5 bars	686	1372	5,0	9,2	8,1	362	750			
		4 bars	625	1250	4,2	7,2	6,3	272	600			
NTS 08 XT 023	23	6,2 bars	359	718	12	22	20	439	900	203	54	2,3
		5 bars	329	658	10	18	16	335	750			
		4 bars	296	591	7,8	14	12	241	600			
NTS 08 XT 028	28	6,2 bars	300	600	14	27	24	439	900	203	54	2,3
		5 bars	275	549	12	22	19	335	750			
		4 bars	247	494	9,3	17	15	241	600			
NTS 08 XT 035	35	6,2 bars	235	470	18	34	30	439	900	203	54	2,3
		5 bars	215	431	15	28	25	335	750			
		4 bars	194	387	12	21	19	241	600			
NTS 08 XT 042	42	6,2 bars	196	393	21	41	36	439	900	203	54	2,3
		5 bars	180	360	18	33	29	335	750			
		4 bars	162	323	14	26	23	241	600			
NTS 08 XT 054	54	6,2 bars	154	308	27	52	46	439	900	203	54	2,3
		5 bars	141	282	23	43	37	335	750			
		4 bars	127	254	18	33	29	241	600			
NTS 08 XT 060	60	6,2 bars	137	274	31	59	52	439	900	203	54	2,3
		5 bars	126	251	25	48	42	335	750			
		4 bars	113	226	20	37	32	241	600			
NTS 08 XT 077	77	6,2 bars	108	215	39	75	66	439	900	203	54	2,3
		5 bars	99	197	33	61	54	335	750			
		4 bars	89	177	26	47	41	241	600			
NTS 08 XT 111	111	6,2 bars	75	150	56	108	95	439	900	227	54	2,8
		5 bars	69	137	47	88	77	335	750			
		4 bars	62	123	37	68	59	241	600			
NTS 08 XT 132	132	6,2 bars	62	125	67	129	114	439	900	227	54	2,8
		5 bars	57	114	56	105	92	335	750			
		4 bars	51	103	45	81	71	241	600			
NTS 08 XT 159	159	6,2 bars	52	104	80	155	136	439	900	227	54	2,8
		5 bars	48	96	67	126	111	335	750			
		4 bars	43	86	54	97	85	241	600			

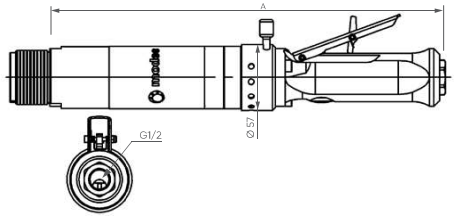
Data indicated in this table have an accuracy of +/- 5%

LAYOUT

NTS 08 XT



NTS 08 RV



PERFORMANCES

NTS 08 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)
NTS 08 RV 005	5	6,2 bars	1584	3167	2,8	4,4	3,9	462	950	317	57	2,4
		5 bars	1410	2820	2,4	3,8	3,3	347	750			
		4 bars	1256	2513	1,9	3,2	2,8	253	600			
NTS 08 RV 006	6	6,2 bars	1322	2644	3,3	5,3	4,6	462	950	317	57	2,4
		5 bars	1177	2354	2,8	4,5	4,0	347	750			
		4 bars	1049	2098	2,3	3,9	3,4	253	600			
NTS 08 RV 007	7	6,2 bars	1037	2074	4,3	6,7	5,9	462	950	317	57	2,4
		5 bars	923	1846	3,6	5,8	5,1	347	750			
		4 bars	823	1646	2,9	4,9	4,3	253	600			
NTS 08 RV 011	11	6,2 bars	724	1448	6,1	9,6	8,5	462	950	317	57	2,4
		5 bars	645	1289	5,1	8,3	7,3	347	750			
		4 bars	574	1149	4,2	7,0	6,2	253	600			
NTS 08 RV 023	23	6,2 bars	337	675	12	19	17	434	950	346	57	2,7
		5 bars	307	615	10	16	14	328	750			
		4 bars	281	561	8,1	12	11	237	600			
NTS 08 RV 028	28	6,2 bars	282	563	15	23	20	434	950	346	57	2,7
		5 bars	257	513	12	19	16	328	750			
		4 bars	234	468	9,7	15	13	237	600			
NTS 08 RV 035	35	6,2 bars	221	442	19	29	25	434	950	346	57	2,7
		5 bars	201	403	16	24	21	328	750			
		4 bars	184	368	12	19	16	237	600			
NTS 08 RV 042	42	6,2 bars	184	369	22	35	30	434	950	346	57	2,7
		5 bars	168	336	19	28	25	328	750			
		4 bars	153	307	15	22	20	237	600			
NTS 08 RV 054	54	6,2 bars	145	289	29	44	39	434	950	346	57	2,7
		5 bars	132	264	24	36	32	328	750			
		4 bars	120	241	19	29	25	237	600			
NTS 08 RV 060	60	6,2 bars	129	258	32	49	43	434	950	346	57	2,7
		5 bars	117	235	27	41	36	328	750			
		4 bars	107	214	21	32	28	237	600			
NTS 08 RV 077	77	6,2 bars	101	202	41	63	55	434	950	346	57	2,7
		5 bars	92	184	34	52	46	328	750			
		4 bars	84	168	27	41	36	237	600			
NTS 08 RV 111	111	6,2 bars	71	141	55	87	77	404	950	370	57	3
		5 bars	63	126	46	72	63	303	750			
		4 bars	56	112	38	60	52	222	600			
NTS 08 RV 132	132	6,2 bars	59	118	65	104	92	404	950	370	57	3
		5 bars	53	105	55	86	76	303	750			
		4 bars	47	93	46	71	63	222	600			
NTS 08 RV 159	159	6,2 bars	49	98	78	125	110	404	950	370	57	3
		5 bars	44	88	66	103	91	303	750			
		4 bars	39	78	55	85	75	222	600			
NTS 08 RV 202	202	6,2 bars	39	77	100	159	140	404	950	370	57	3
		5 bars	34	69	84	132	116	303	750			
		4 bars	31	61	70	109	96	222	600			

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

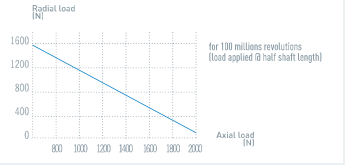
OPTIONS AVAILABLE FOR THE NTS 08 XT

Collected exhaust	●	●	●	●	●	●
ATEX certification		●			●	●
Stainless steel			●		●	
Kit start				●		●
Code	01	07	09	10	21	22

OPTIONS AVAILABLE FOR THE NTS 08 RV

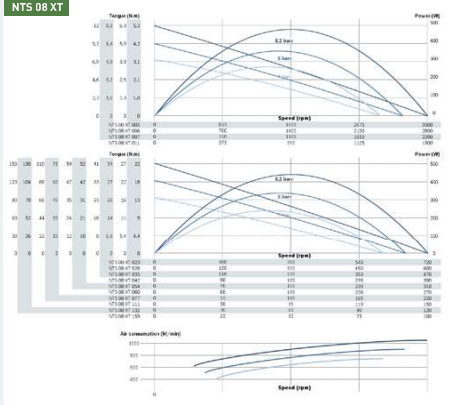
ATEX certification		●			●	●
Left/Right switch	●	●	●	●	●	●
Stainless steel			●		●	
Kit start				●		●
Code	03	12	16	17	29	30

MAXIMUM RADIAL & AXIAL LOAD

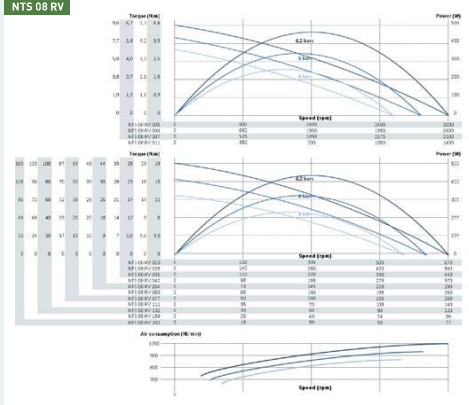


POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

NTS 08 XT



NTS 08 RV



MOTOR MTH 08 / MTZ 08

POWER 600-630 W

MTH 08

MTZ 08

REDUCTION RATIO (3 digits) *See table*

OPTIONS (2 digits) *See table*

M	T	H/Z	0	8	X	X	X	X	X	X	X	X	X	–	X	X

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

FLANGE (1 to 2 digits)

OUTPUT SHAFT (1 to 3 digits)

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

PERFORMANCES

MTH/Z 08 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 08 XT 159	159	6,2 bars	60	119	96	165	145	596	1000	238,2	69	3,4
		5 bars	55	110	80	134	118	462	850			
		4 bars	50	99	64	105	92	333	650			
MTH 08 XT 190	190	6,2 bars	50	99	115	198	174	596	1000	238,2	69	3,4
		5 bars	46	92	96	160	141	462	850			
		4 bars	41	83	77	126	110	333	650			
MTH 08 XT 224	224	6,2 bars	42	84	135	233	205	596	1000	238,2	69	3,4
		5 bars	39	78	113	189	166	462	850			
		4 bars	35	70	91	148	130	333	650			
MTH 08 XT 258	258	6,2 bars	37	73	155	268	236	596	1000	238,2	69	3,4
		5 bars	34	68	130	217	191	462	850			
		4 bars	31	61	104	170	150	333	650			
MTH 08 XT 309	309	6,2 bars	31	61	186	321	283	596	1000	238,2	69	3,4
		5 bars	28	56	156	260	229	462	850			
		4 bars	25	51	125	204	179	333	650			
MTZ 08 XT 394	394	6,2 bars	24	48	237	410	360	596	1000	129,1	88,8	4,2
		5 bars	22	44	199	332	292	462	850			
		4 bars	20	40	159	260	229	333	650			
MTZ 08 XT 564	564	6,2 bars	17	34	340	587	516	596	1000	129,1	88,8	4,2
		5 bars	15	31	285	475	418	462	850			
		4 bars	14	28	228	372	328	333	650			

MTH/Z 08 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 08 RV 190	190	6,2 bars	48	96	126	182	160	633	950	238,2	69	3,4
		5 bars	44	88	103	149	131	471	750			
		4 bars	40	79	85	116	102	351	600			
MTH 08 RV 224	224	6,2 bars	41	81	149	214	189	633	950	238,2	69	3,4
		5 bars	37	74	121	176	154	471	750			
		4 bars	34	67	100	137	120	351	600			
MTH 08 RV 258	258	6,2 bars	35	70	171	247	217	633	950	238,2	69	3,4
		5 bars	32	65	139	202	178	471	750			
		4 bars	29	58	115	157	139	351	600			
MTH 08 RV 309	309	6,2 bars	29	59	205	296	260	633	950	238,2	69	3,4
		5 bars	27	54	167	242	213	471	750			
		4 bars	24	49	138	189	166	351	600			
MTZ 08 RV 394	394	6,2 bars	23	46	262	377	332	633	950	129,1	88,8	4,2
		5 bars	21	42	213	309	272	471	750			
		4 bars	19	38	176	241	212	351	600			
MTZ 08 RV 564	564	6,2 bars	16	32	375	540	475	633	950	129,1	88,8	4,2
		5 bars	15	30	305	442	389	471	750			
		4 bars	13	27	252	345	303	351	600			

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

OPTIONS AVAILABLE FOR THE MTH 08

Code	03	03	07	09	10	12	16	17	21	22	29	30
Collected exhaust	●		●	●	●				●	●		
ATEX certification			●			●			●	●	●	●
Left/Right switch*		●				●	●	●			●	●
Lubrication free				●			●		●		●	
Kit start					●			●		●		●

** sur modèle réversible uniquement*

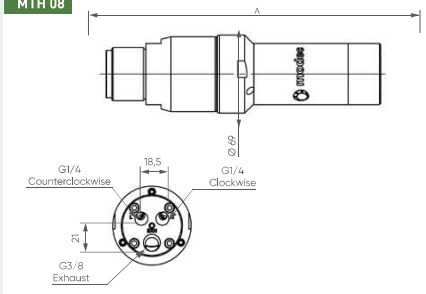
OPTIONS DISPONIBLES POUR LE MOTEUR MTZ 08

Code	01	03	07	09	10	11	12	16	17	21	22	23	27	28	29	30	36	37
Collected exhaust	●		●	●	●	●				●	●	●	●	●			●	●
ATEX certification			●				●			●	●	●			●	●	●	●
Left/Right switch*		●					●	●	●						●	●		
Lubrication free				●				●		●			●		●		●	
Kit start					●				●		●			●		●		●
Stainless steel						●						●	●	●			●	●

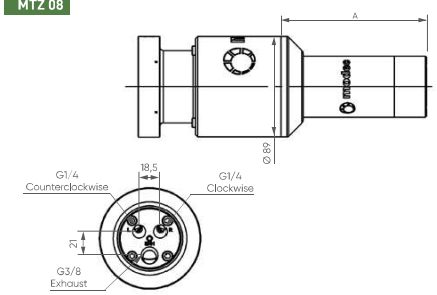
** Reversible motors only*

LAYOUT

MTH 08

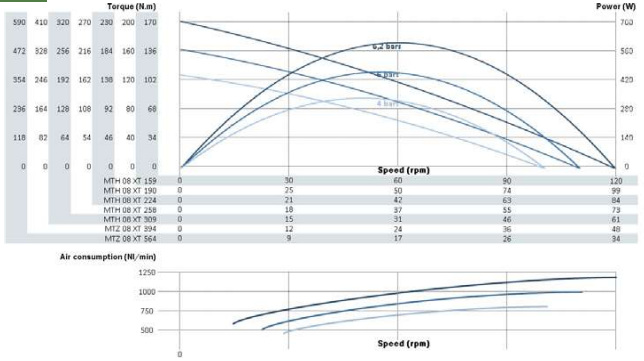


MTZ 08

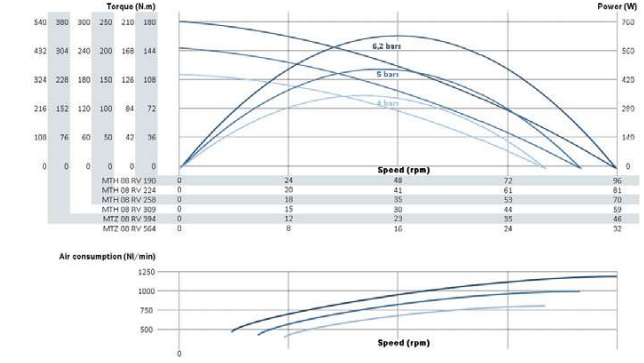


POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

MTH/Z 08 XT

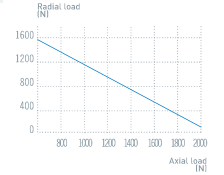


MTH/Z 08 RV



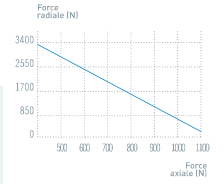
MAXIMUM RADIAL & AXIAL LOAD

MTH 08



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

MTZ 08



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

NOTES

modec moteurs & solutions pneumatiques

MOTOR NTH 08 / NTZ 08

POWER 420-430 W

REDUCTION RATIO (3 digits) *See table*

OPTIONS (2 digits) *See table*

N T H/Z 0 8 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*

PERFORMANCES

NTH/Z 08 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)
NTH 08 XT 190	190	6,2 bars	43	86	96	174	153	430	1000	277,3	69	3,6
		5 bars	39	79	80	140	123	331	850			
		4 bars	36	71	64	108	95	239	650			
NTH 08 XT 224	224	6,2 bars	36	73	113	205	180	430	1000	277,3	69	3,6
		5 bars	33	67	94	165	145	331	850			
		4 bars	30	60	75	127	112	239	650			
NTH 08 XT 258	258	6,2 bars	32	63	130	236	208	430	1000	277,3	69	3,6
		5 bars	29	58	109	189	167	331	850			
		4 bars	26	53	87	147	129	239	650			
NTH 08 XT 309	309	6,2 bars	26	53	156	283	249	430	1000	277,3	69	3,6
		5 bars	24	49	130	227	200	331	850			
		4 bars	22	44	104	176	154	239	650			
NTZ 08 XT 394	394	6,2 bars	21	41	199	360	317	430	1000	168,2	88,8	4,7
		5 bars	19	38	166	289	255	331	850			
		4 bars	17	34	133	224	197	239	650			
NTZ 08 XT 564	564	6,2 bars	14	29	285	516	454	430	1000	168,2	88,8	4,7
		5 bars	13	27	237	414	365	331	850			
		4 bars	12	24	190	320	282	239	650			

NTH/Z 08 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)
NTH 08 RV 224	224	6,2 bars	35	70	115	180	159	420	950	420,3	69	3,8
		5 bars	32	63	96	146	129	317	750			
		4 bars	29	58	78	115	101	236	600			
NTH 08 RV 258	258	6,2 bars	30	61	132	207	182	420	950	420,3	69	3,8
		5 bars	27	55	110	168	148	317	750			
		4 bars	25	50	90	132	116	236	600			
NTH 08 RV 309	309	6,2 bars	25	51	159	248	219	420	950	420,3	69	3,8
		5 bars	23	46	132	202	177	317	750			
		4 bars	21	42	108	158	139	236	600			
NTZ 08 RV 394	394	6,2 bars	20	40	202	317	279	420	950	311,2	88,8	4,9
		5 bars	18	36	168	257	226	317	750			
		4 bars	16	33	137	202	178	236	600			
NTZ 08 RV 564	564	6,2 bars	14	28	290	454	399	420	950	311,2	88,8	4,9
		5 bars	13	25	241	368	324	317	750			
		4 bars	11	23	196	289	255	236	600			

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

OPTIONS AVAILABLE FOR THE NTH/Z 08 XT

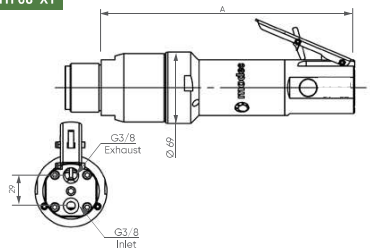
Collected exhaust	●	●	●	●	●	●
ATEX certification		●			●	●
Lubrication free			●		●	
Kit start				●		●
Code	01	07	09	10	21	22

OPTIONS AVAILABLE FOR THE NTH/Z 08 RV

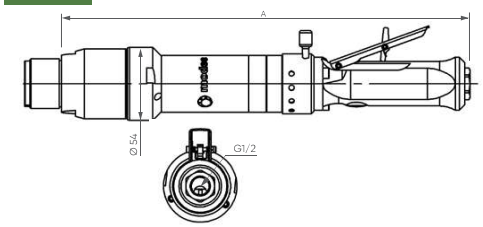
ATEX certification		●			●	●
Left/Right switch	●	●	●	●	●	●
Lubrication free			●		●	
Kit start				●		●
Code	03	12	16	17	29	30

LAYOUT

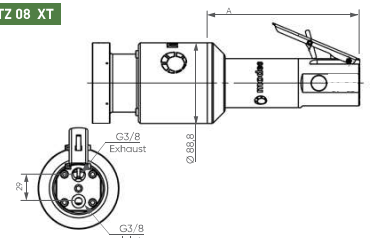
NTH 08 XT



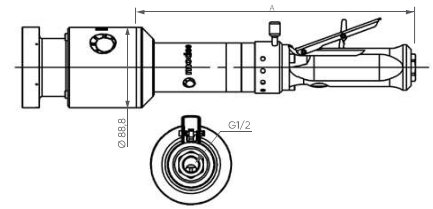
NTH 08 RV



NTZ 08 XT

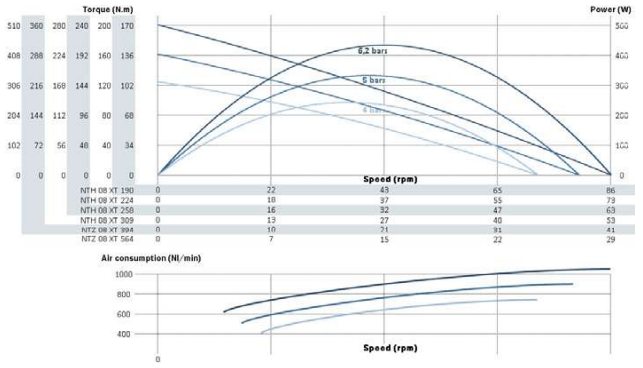


NTZ 08 RV

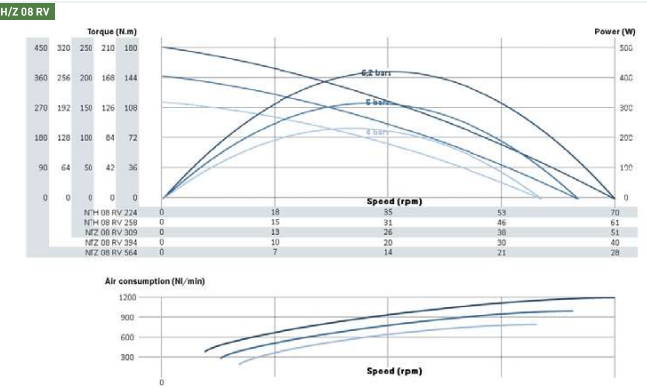


POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

NTH/Z 08 XT

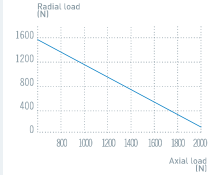


NTH/Z 08 RV



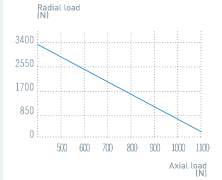
MAXIMUM RADIAL & AXIAL LOAD

NTH 08



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

NTZ 08



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

NOTES

modec moteurs & solutions pneumatiques

MOTOR MRS 08

POWER 530-640 W

REDUCTION RATIO (3 digits) *See table*

OPTIONS (2 digits) *See table*

M	R	S	0	8	X	X	X	X	X	X	X	X	X	X

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

FLANGE (1 to 2 digits)

OUTPUT SHAFT (1 to 3 digits)

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

PERFORMANCES — MRS 08 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)
MRS 08 XT 006	6	6,2 bars	1458	2916	4,1	7,9	7,0	623	1000	228,9	54	2,9
		5 bars	1363	2726	3,3	6,4	5,6	477	850			
		4 bars	1256	2512	2,7	5,0	4,4	353	650			
MRS 08 XT 008	8	6,2 bars	1217	2434	4,9	9,5	8,3	623	1000	228,9	54	2,9
		5 bars	1138	2276	4,0	7,7	6,8	477	850			
		4 bars	1049	2097	3,2	6,0	5,3	353	650			
MRS 08 XT 010	10	6,2 bars	955	1909	6,2	12	11	623	1000	228,9	54	2,9
		5 bars	893	1785	5,1	9,8	8,6	477	850			
		4 bars	823	1645	4,1	7,6	6,7	353	650			
MRS 08 XT 014	14	6,2 bars	666	1333	8,9	17	15	623	1000	228,9	54	2,9
		5 bars	623	1246	7,3	14	12	477	850			
		4 bars	574	1149	5,9	11	9,6	353	650			
MRS 08 XT 031	31	6,2 bars	309	618	18	32	28	571	1000	255,9	54	3,1
		5 bars	283	566	15	25	22	435	850			
		4 bars	257	514	12	19	17	322	650			
MRS 08 XT 037	37	6,2 bars	258	516	21	38	33	571	1000	255,9	54	3,1
		5 bars	236	473	18	30	27	435	850			
		4 bars	215	429	14	23	20	322	650			
MRS 08 XT 047	47	6,2 bars	202	405	27	48	42	571	1000	255,9	54	3,1
		5 bars	185	371	22	38	34	435	850			
		4 bars	168	337	18	30	26	322	650			
MRS 08 XT 056	56	6,2 bars	169	338	32	58	51	571	1000	255,9	54	3,1
		5 bars	155	310	27	46	40	435	850			
		4 bars	141	281	22	35	31	322	650			
MRS 08 XT 071	71	6,2 bars	133	265	41	74	65	571	1000	255,9	54	3,1
		5 bars	121	243	34	59	52	435	850			
		4 bars	110	220	28	45	40	322	650			
MRS 08 XT 080	80	6,2 bars	118	236	46	83	73	571	1000	255,9	54	3,1
		5 bars	108	216	38	66	58	435	850			
		4 bars	98	196	31	51	45	322	650			
MRS 08 XT 102	102	6,2 bars	93	185	59	106	93	571	1000	255,9	54	3,1
		5 bars	85	169	49	84	74	435	850			
		4 bars	77	154	40	65	57	322	650			
MRS 08 XT 147	147	6,2 bars	64	128	80	153	135	535	1000	279,9	54	3,4
		5 bars	58	116	66	125	110	404	850			
		4 bars	53	106	55	100	88	305	650			

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

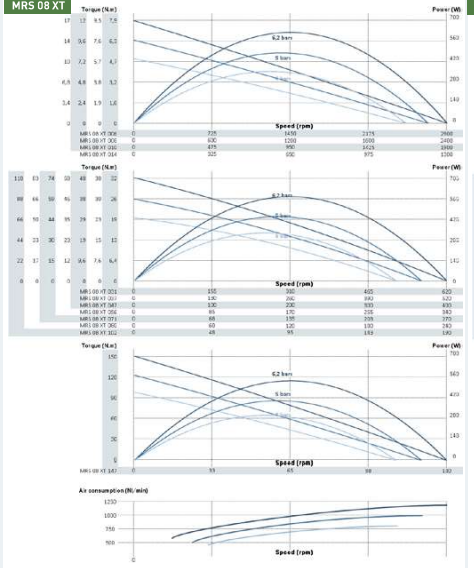
PERFORMANCES — MRS 08 RV

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)
MRS 08 RV 006	6	6,2 bars	1418	2837	4,3	6,5	5,7	642	950	228,9	54	2,9
		5 bars	1298	2596	3,6	5,7	5,0	490	750			
		4 bars	1182	2365	2,9	4,9	4,3	365	600			
MRS 08 RV 008	8	6,2 bars	1184	2368	5,2	7,8	6,9	642	950	228,9	54	2,9
		5 bars	1084	2167	4,3	6,8	6,0	490	750			
		4 bars	987	1974	3,5	5,8	5,1	365	600			
MRS 08 RV 010	10	6,2 bars	929	1858	6,6	9,9	8,7	642	950	228,9	54	2,9
		5 bars	850	1700	5,5	8,7	7,7	490	750			
		4 bars	774	1549	4,5	7,5	6,6	365	600			
MRS 08 RV 014	14	6,2 bars	648	1297	9,5	14	13	642	950	228,9	54	2,9
		5 bars	593	1187	7,9	12	11	490	750			
		4 bars	541	1081	6,4	11	9,4	365	600			
MRS 08 RV 031	31	6,2 bars	293	586	19	28	25	582	950	255,9	54	3,1
		5 bars	269	539	16	23	20	444	750			
		4 bars	248	497	13	19	17	336	600			
MRS 08 RV 037	37	6,2 bars	245	489	23	33	29	582	950	255,9	54	3,1
		5 bars	225	450	19	28	24	444	750			
		4 bars	207	415	15	23	20	336	600			
MRS 08 RV 047	47	6,2 bars	192	384	29	43	37	582	950	255,9	54	3,1
		5 bars	176	353	24	35	31	444	750			
		4 bars	163	325	20	29	25	336	600			
MRS 08 RV 056	56	6,2 bars	160	320	35	51	45	582	950	255,9	54	3,1
		5 bars	147	295	29	42	37	444	750			
		4 bars	136	272	24	35	31	336	600			
MRS 08 RV 071	71	6,2 bars	126	251	44	65	57	582	950	255,9	54	3,1
		5 bars	116	231	37	54	47	444	750			
		4 bars	106	213	30	44	39	336	600			
MRS 08 RV 080	80	6,2 bars	112	224	50	73	64	582	950	255,9	54	3,1
		5 bars	103	206	41	60	53	444	750			
		4 bars	95	190	34	50	44	336	600			
MRS 08 RV 102	102	6,2 bars	88	175	63	93	82	582	950	255,9	54	3,1
		5 bars	81	161	53	77	68	444	750			
		4 bars	74	149	43	63	56	336	600			
MRS 08 RV 147	147	6,2 bars	61	122	91	134	118	582	950	279,9	54	3,4
		5 bars	56	112	75	111	97	444	750			
		4 bars	52	103	62	91	80	336	600			
MRS 08 RV 176	176	6,2 bars	51	102	109	160	141	582	950	279,9	54	3,4
		5 bars	47	94	90	133	117	444	750			
		4 bars	43	86	74	109	96	336	600			

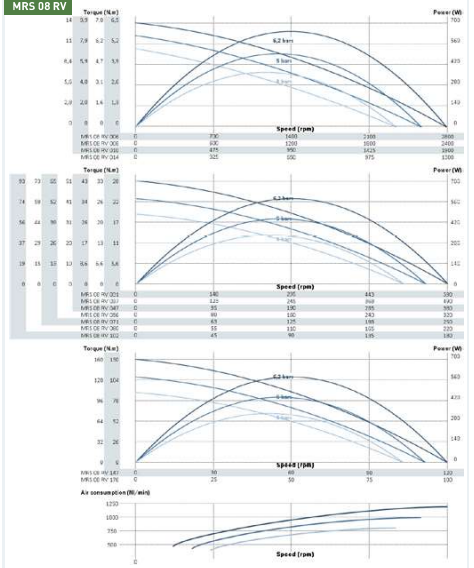
Data indicated in this table have an accuracy of +/- 5%

POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

MRS 08 XT



MRS 08 RV



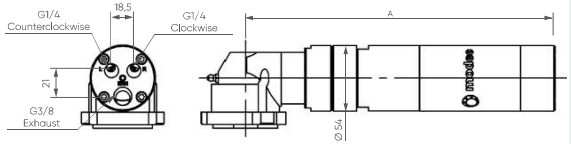
OPTIONS AVAILABLE FOR THIS MOTOR

Code	01	03	07	09	10	12	16	17	21	22	29	30
Collected exhaust	●			●	●	●				●	●	
ATEX certification			●				●		●	●	●	●
Left/Right switch*		●				●	●	●			●	●
Lubrication free				●				●		●		●
Kit start					●				●		●	

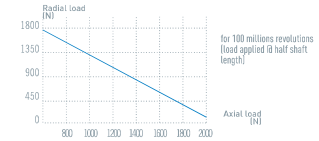
** Reversible motors only*

LAYOUT

MRS 08



MAXIMUM RADIAL & AXIAL LOAD

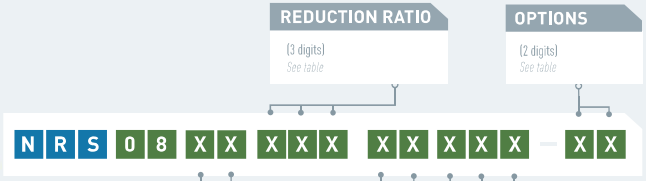


NOTES

modec
moteurs & solutions pneumatiques

MOTOR NRS 08

POWER 370-430 W



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

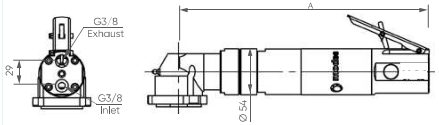
PERFORMANCES

NRS 08 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)
NRS 08 XT 006	6	6,2 bars	1242	2483	3,3	6,5	5,7	433	900	268	54	3,2
		5 bars	1116	2233	2,8	5,2	4,6	329	750			
		4 bars	1016	2033	2,3	4,1	3,6	244	600			
NRS 08 XT 008	8	6,2 bars	1036	2073	4,0	7,8	6,8	433	900	268	54	3,2
		5 bars	932	1864	3,4	6,3	5,5	329	750			
		4 bars	848	1697	2,7	4,9	4,3	244	600			
NRS 08 XT 010	10	6,2 bars	813	1626	5,1	9,9	8,7	433	900	268	54	3,2
		5 bars	731	1462	4,3	8,0	7,0	329	750			
		4 bars	666	1331	3,5	6,2	5,5	244	600			
NRS 08 XT 014	14	6,2 bars	568	1135	7,3	14	12	433	900	268	54	3,2
		5 bars	510	1021	6,2	11	10	329	750			
		4 bars	465	929	5,0	8,9	7,8	244	600			
NRS 08 XT 031	31	6,2 bars	265	529	14	28	25	401	900	295	54	3,5
		5 bars	242	483	12	23	20	301	750			
		4 bars	219	437	10	19	16	223	600			
NRS 08 XT 037	37	6,2 bars	221	442	17	34	30	401	900	295	54	3,5
		5 bars	202	403	14	28	24	301	750			
		4 bars	183	365	12	22	20	223	600			
NRS 08 XT 047	47	6,2 bars	173	347	22	43	38	401	900	295	54	3,5
		5 bars	158	316	18	35	31	301	750			
		4 bars	143	286	15	29	25	223	600			
NRS 08 XT 056	56	6,2 bars	145	289	26	51	45	401	900	295	54	3,5
		5 bars	132	264	22	42	37	301	750			
		4 bars	120	239	18	34	30	223	600			
NRS 08 XT 071	71	6,2 bars	114	227	34	66	58	401	900	295	54	3,5
		5 bars	104	207	28	54	47	301	750			
		4 bars	94	188	23	44	38	223	600			
NRS 08 XT 080	80	6,2 bars	101	202	38	74	65	401	900	295	54	3,5
		5 bars	92	184	31	61	53	301	750			
		4 bars	83	167	26	49	43	223	600			
NRS 08 XT 102	102	6,2 bars	79	158	48	94	83	401	900	295	54	3,5
		5 bars	72	145	40	77	68	301	750			
		4 bars	65	131	33	62	55	223	600			
NRS 08 XT 147	147	6,2 bars	55	110	69	135	119	401	900	319	54	3,7
		5 bars	50	101	57	111	98	301	750			
		4 bars	46	91	47	90	79	223	600			
NRS 08 XT 176	176	6,2 bars	46	92	83	162	142	401	900	319	54	3,7
		5 bars	42	84	68	133	117	301	750			
		4 bars	38	76	56	107	94	223	600			

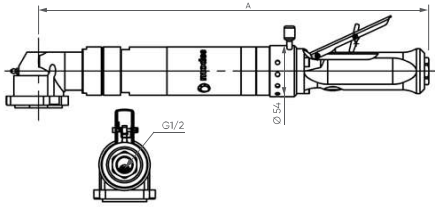
Data indicated in this table have an accuracy of +/- 5%

LAYOUT

NRS 08 XT



NRS 08 RV



PERFORMANCES

NRS 08 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)
NRS 08 RV 006	6	6,2 bars	1177	2355	3,4	5,5	4,8	420	950	406	57	3,6
		5 bars	1048	2095	2,9	4,7	4,1	320	750			
		4 bars	942	1884	2,4	4,0	3,5	239	600			
NRS 08 RV 008	8	6,2 bars	983	1966	4,1	6,5	5,8	420	950	406	57	3,6
		5 bars	875	1749	3,5	5,6	5,0	320	750			
		4 bars	787	1573	2,9	4,8	4,2	239	600			
NRS 08 RV 010	10	6,2 bars	771	1542	5,2	8,3	7,3	420	950	406	57	3,6
		5 bars	686	1372	4,5	7,2	6,3	320	750			
		4 bars	617	1234	3,7	6,1	5,4	239	600			
NRS 08 RV 014	14	6,2 bars	538	1076	7,5	12	11	420	950	406	57	3,6
		5 bars	479	958	6,4	10	9,1	320	750			
		4 bars	431	861	5,3	8,8	7,7	239	600			
NRS 08 RV 031	31	6,2 bars	251	502	15	23	21	395	950	438	57	3,8
		5 bars	227	454	12	19	17	296	750			
		4 bars	209	417	10	16	14	216	600			
NRS 08 RV 037	37	6,2 bars	209	419	18	28	25	395	950	438	57	3,8
		5 bars	190	379	15	23	20	296	750			
		4 bars	174	348	12	19	16	216	600			
NRS 08 RV 047	47	6,2 bars	164	328	23	36	31	395	950	438	57	3,8
		5 bars	149	298	19	30	26	296	750			
		4 bars	137	273	15	24	21	216	600			
NRS 08 RV 056	56	6,2 bars	137	274	27	43	38	395	950	438	57	3,8
		5 bars	124	248	23	35	31	296	750			
		4 bars	114	228	18	29	25	216	600			
NRS 08 RV 071	71	6,2 bars	108	215	35	55	48	395	950	438	57	3,8
		5 bars	97	195	29	45	40	296	750			
		4 bars	89	179	23	36	32	216	600			
NRS 08 RV 080	80	6,2 bars	96	191	39	61	54	395	950	438	57	3,8
		5 bars	87	173	33	51	45	296	750			
		4 bars	80	159	26	41	36	216	600			
NRS 08 RV 102	102	6,2 bars	75	150	50	78	69	395	950	438	57	3,8
		5 bars	68	136	42	65	57	296	750			
		4 bars	62	125	33	52	46	216	600			
NRS 08 RV 147	147	6,2 bars	52	105	67	108	95	368	950	462	57	4,1
		5 bars	46	93	57	91	80	276	750			
		4 bars	42	83	48	74	65	207	600			
NRS 08 RV 176	176	6,2 bars	44	88	80	129	114	368	950	462	57	4,1
		5 bars	39	77	68	109	96	276	750			
		4 bars	35	69	57	89	78	207	600			
NRS 08 RV 211	211	6,2 bars	37	73	96	155	136	368	950	462	57	4,1
		5 bars	32	65	82	131	115	276	750			
		4 bars	29	58	68	106	93	207	600			

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

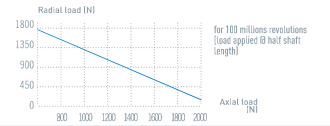
OPTIONS AVAILABLE FOR THE NRS 08 XT

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

OPTIONS AVAILABLE FOR THE NRS 08 RV

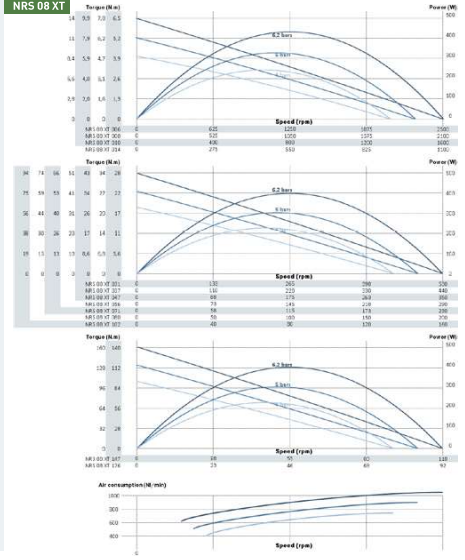
ATEX certification		➡			➡	➡
Left/Right switch	➡	➡	➡	➡	➡	➡
Lubrication free			➡		➡	
Kit start				➡		➡
Code	03	12	16	17	29	30

MAXIMUM RADIAL & AXIAL LOAD

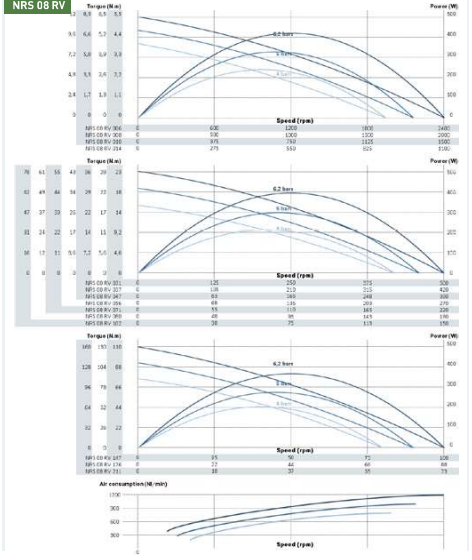


POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

NRS 08 XT



NRS 08 RV



MOTOR MRH 08 / MRZ 08

POWER 560 -580 W

MRH 08

MRZ 08

REDUCTION RATIO (3 digits) *See table*

OPTIONS (2 digits) *See table*

M	R	H/Z	0	8	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*

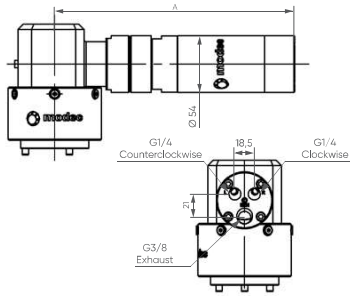
OPTIONS AVAILABLE FOR THIS MOTOR

Collected exhaust	▰		▰	▰	▰				▰	▰		
ATEX certification			▰			▰			▰	▰	▰	▰
Left/Right switch*		▰				▰	▰	▰			▰	▰
Lubrication free				▰			▰		▰		▰	
Kit start					▰			▰		▰		▰
Code	01	03	07	09	10	12	16	17	21	22	29	30

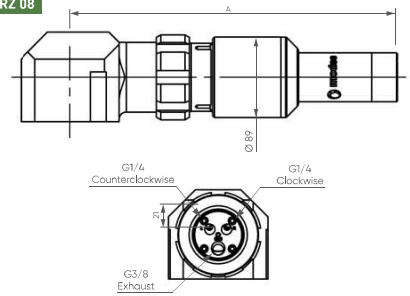
** Reversible motors only*

LAYOUT

MRH 08



MRZ 08



PERFORMANCES

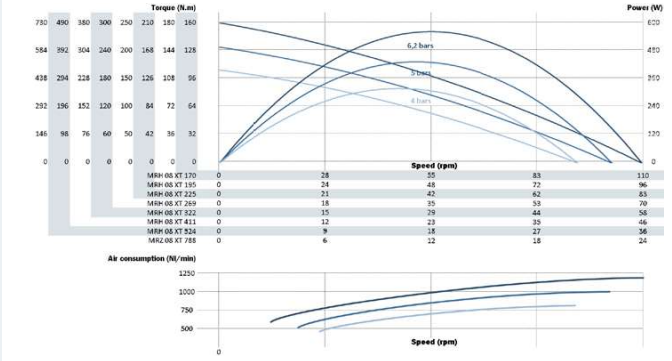
MRH/Z 08 XT	Reduction ratio	Air supply pressure	Speed (rpm)		Torque (N.m)			Max Power (W)	Air cons (Nl/min)	Dimensions		
Air motor reference			@ max Power	Free	@ max Power	Max (stall)	Starting torque			A (mm)	Ø (mm)	Weight (kg)
MRH 08 XT 170	170	6,2 bars	55	110	97	158	145	563	950	252,9	54	5,1
		5 bars	51	102	82	131	115	435	750			
		4 bars	46	92	66	104	92	317	600			
MRH 08 XT 195	195	6,2 bars	48	96	112	182	167	563	950	252,9	54	5,1
		5 bars	44	89	94	150	132	435	750			
		4 bars	40	80	76	120	106	317	600			
MRH 08 XT 225	225	6,2 bars	42	83	129	209	192	563	950	252,9	54	5,1
		5 bars	38	77	108	173	152	435	750			
		4 bars	35	69	87	138	122	317	600			
MRH 08 XT 269	269	6,2 bars	35	70	154	250	230	563	950	252,9	54	5,1
		5 bars	32	64	129	207	182	435	750			
		4 bars	29	58	104	166	146	317	600			
MRH 08 XT 322	322	6,2 bars	29	58	185	300	275	563	950	252,9	54	5,1
		5 bars	27	54	155	248	218	435	750			
		4 bars	24	48	125	199	175	317	600			
MRH 08 XT 411	411	6,2 bars	23	46	236	382	351	563	950	252,9	54	5,1
		5 bars	21	42	198	316	279	435	750			
		4 bars	19	38	159	253	223	317	600			
MRH 08 XT 524	524	6,2 bars	18	36	301	488	447	563	950	252,9	54	5,1
		5 bars	16	33	252	403	355	435	750			
		4 bars	15	30	203	323	284	317	600			
MRZ 08 XT 788	788	6,2 bars	12	24	452	733	673	563	950	364,7	88,8	10,1
		5 bars	11	22	379	607	534	435	750			
		4 bars	10	20	305	485	427	317	600			

MRH/Z 08 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 08 RV 195	195	6,2 bars	46	92	120	174	153	579	950	252,9	54	5,1
		5 bars	42	84	100	140	123	443	750			
		4 bars	38	76	83	111	98	331	600			
MRH 08 RV 225	225	6,2 bars	40	80	138	201	177	579	950	252,9	54	5,1
		5 bars	37	73	116	161	142	443	750			
		4 bars	33	66	95	128	113	331	600			
MRH 08 RV 269	269	6,2 bars	33	67	165	240	212	579	950	252,9	54	5,1
		5 bars	31	61	139	193	170	443	750			
		4 bars	28	55	114	153	135	331	600			
MRH 08 RV 322	322	6,2 bars	28	56	198	288	253	579	950	252,9	54	5,1
		5 bars	26	51	166	231	203	443	750			
		4 bars	23	46	137	184	162	331	600			
MRH 08 RV 411	411	6,2 bars	22	44	252	367	323	579	950	252,9	54	5,1
		5 bars	20	40	212	294	259	443	750			
		4 bars	18	36	175	234	206	331	600			
MRH 08 RV 524	524	6,2 bars	17	34	322	468	412	579	950	252,9	54	5,1
		5 bars	16	31	270	375	330	443	750			
		4 bars	14	28	223	299	263	331	600			
MRZ 08 RV 788	788	6,2 bars	11	23	484	704	619	579	950	364,7	88,8	10,1
		5 bars	10	21	406	564	497	443	750			
		4 bars	9,4	19	335	449	395	331	600			

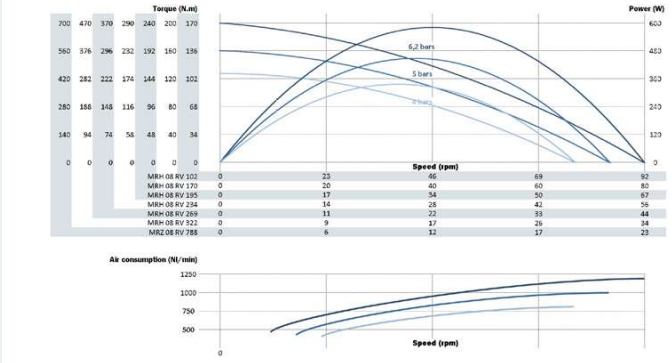
Data indicated in this table have an accuracy of +/- 5%

POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

MRH/Z 08 XT

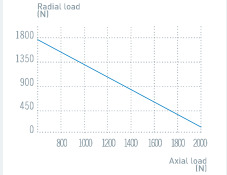


MRH/Z 08 RV



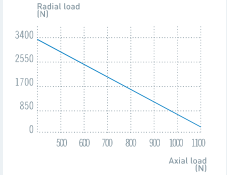
MAXIMUM RADIAL & AXIAL LOAD

MRH 08



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

MRZ 08



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

NOTES

modec
moteurs & solutions pneumatiques

MOTOR NRH 08 / NRZ 08
POWER 400 W

N	R	H/Z	0	8	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*

PERFORMANCES

NRH/Z 08 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)
NRH 08 XT 225	225	6,2 bars	36	72	107	192	169	400	900	292	54	5,4
		5 bars	33	66	88	157	135	305	750			
		4 bars	30	60	71	125	110	223	600			
NRH 08 XT 269	269	6,2 bars	30	60	128	230	202	400	900	292	54	5,4
		5 bars	28	55	105	188	162	305	750			
		4 bars	25	50	85	149	131	223	600			
NRH 08 XT 322	322	6,2 bars	25	50	153	275	242	400	900	292	54	5,4
		5 bars	23	44	126	225	194	305	750			
		4 bars	21	42	102	179	157	223	600			
NRH 08 XT 411	411	6,2 bars	20	39	195	351	309	400	900	292	54	5,4
		5 bars	18	36	161	287	248	305	750			
		4 bars	16	33	130	228	201	223	600			
NRH 08 XT 524	524	6,2 bars	15	31	249	447	394	400	900	292	54	5,4
		5 bars	14	28	205	366	316	305	750			
		4 bars	13	26	166	290	256	223	600			
NRZ 08 XT 788	788	6,2 bars	10	20	374	673	592	400	900	403,8	88,8	10,3
		5 bars	9,4	19	309	550	475	305	750			
		4 bars	8,5	17	250	437	384	223	600			

NRH/Z 08 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)
NRH 08 RV 225	225	6,2 bars	34	69	110	169	148	396	950	442,3	57	5,8
		5 bars	31	63	91	137	119	298	750			
		4 bars	28	57	74	108	95	222	600			
NRH 08 RV 269	269	6,2 bars	29	58	131	202	178	396	950	442,3	57	5,8
		5 bars	26	52	109	164	142	298	750			
		4 bars	24	48	89	129	113	222	600			
NRH 08 RV 322	322	6,2 bars	24	48	157	242	213	396	950	442,3	57	5,8
		5 bars	22	44	130	196	171	298	750			
		4 bars	20	40	107	154	136	222	600			
NRH 08 RV 411	411	6,2 bars	19	38	201	308	271	396	950	442,3	57	5,8
		5 bars	17	34	166	250	218	298	750			
		4 bars	16	31	136	197	173	222	600			
NRH 08 RV 524	524	6,2 bars	15	30	256	393	346	396	950	442,3	57	5,8
		5 bars	13	27	211	319	277	298	750			
		4 bars	12	24	174	251	221	222	600			
NRH 08 RV 750	750	6,2 bars	10	21	367	563	496	396	950	442,3	57	5,8
		5 bars	9,4	19	303	456	397	298	750			
		4 bars	8,5	17	249	359	316	222	600			
NRZ 08 RV 1k1	1128	6,2 bars	6,9	14	551	847	745	396	950	546,8	88,8	10,8
		5 bars	6,3	13	455	686	597	298	750			
		4 bars	5,7	11	374	540	475	222	600			

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

OPTIONS AVAILABLE FOR THE NRH/Z 08 XT

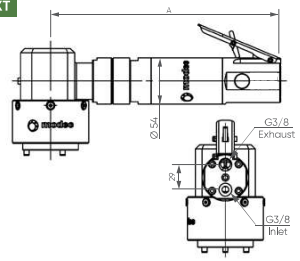
Collected exhaust	▰	▰	▰	▰	▰	▰
ATEX certification		▰			▰	▰
Lubrication free			▰		▰	
Kit start				▰		▰
Code	01	07	09	10	21	22

OPTIONS AVAILABLE FOR THE NRH/Z 08 RV

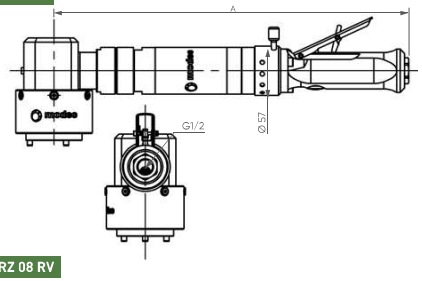
ATEX		▰			▰	▰
Left/Right switch	▰	▰	▰	▰	▰	▰
Lubrication free			▰		▰	
Kit start				▰		▰
Code	03	12	16	17	29	30

LAYOUT

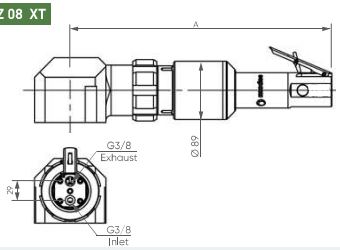
NRH 08 XT



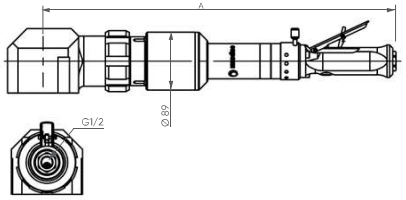
NRH 08 RV



NRZ 08 XT

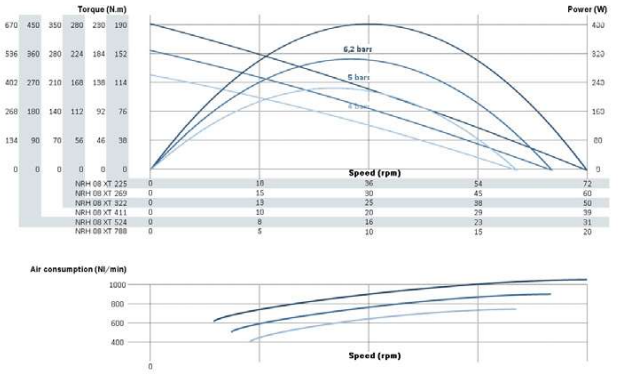


NRZ 08 RV

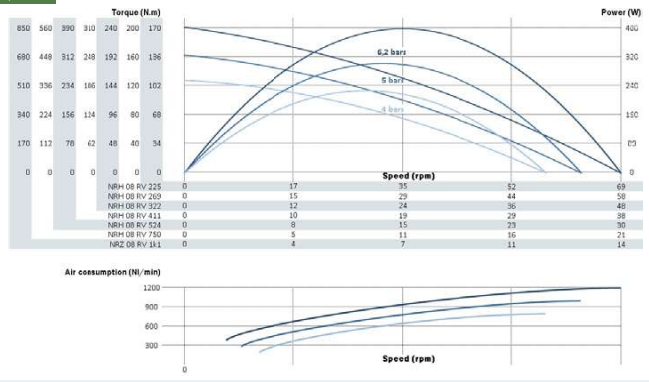


POWER, SPEED, TORQUE AND AIR CONSUMPTION GRAPHS

NRH/Z 08 XT

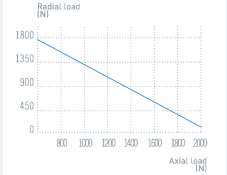


NRH/Z 08 RV



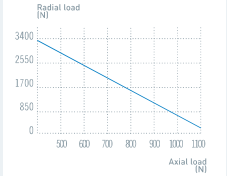
MAXIMUM RADIAL & AXIAL LOAD

NRH 08



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

NRZ 08



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

NOTES

modec moteurs & solutions pneumatiques

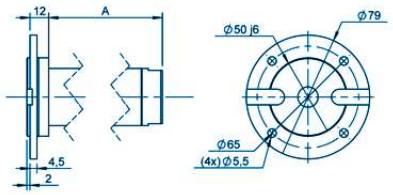
FLANGES & SHAFTS

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

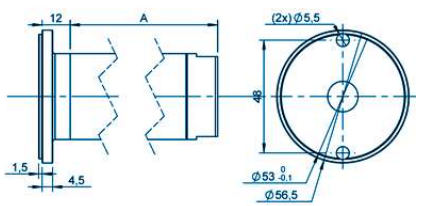
FLANGES & SHAFTS **GROUP I**

MTE 05 MTS 05

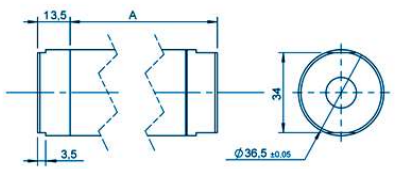
GROUP I FLANGE AA



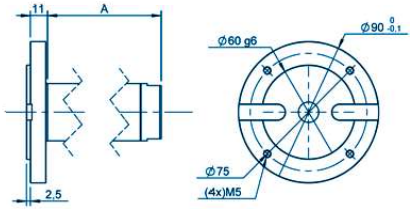
GROUP I FLANGE B



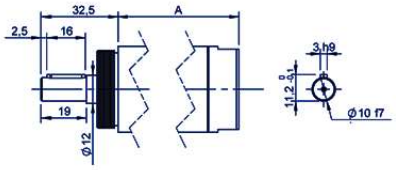
GROUP I FLANGE P



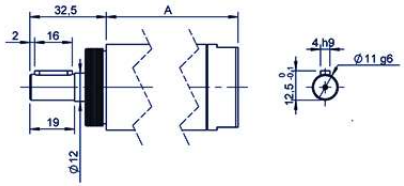
GROUP I FLANGE S - IEC63B14



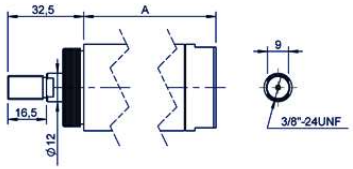
GROUP I SHAFT CL1 - KEYED Ø10



GROUP I SHAFT CL2 - KEYED Ø11 - IEC63B14



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



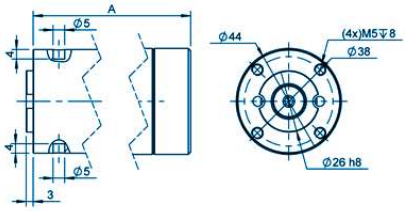
You didn't find your match ?

Contact us !

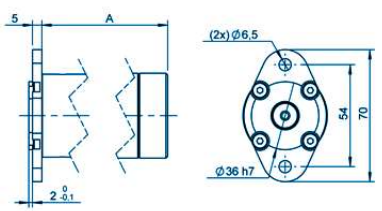
FLANGES & SHAFTS **GROUP II** (1/2)

MTE 07 MTS 07

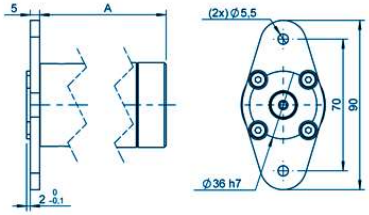
GROUP II FLANGE AA



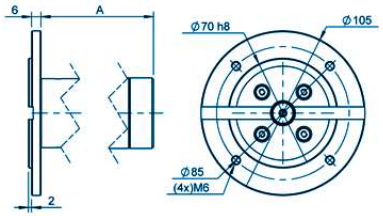
GROUP II FLANGE AB



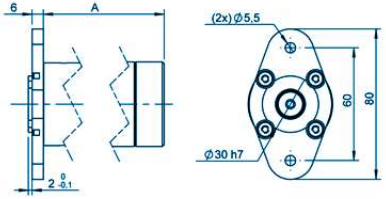
GROUP II FLANGE AC



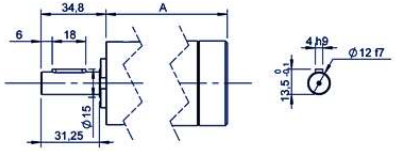
GROUP II FLANGE AD - IEC 71B14



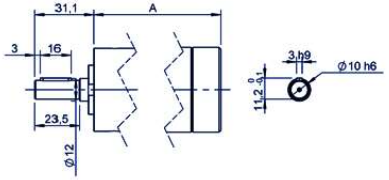
GROUP II FLANGE AE



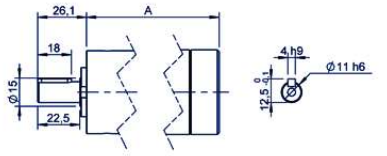
GROUP II SHAFT 001 - KEYED Ø12



GROUP II SHAFT 004 - KEYED Ø10



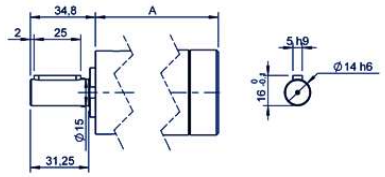
GROUP II SHAFT 006 - KEYED Ø11



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

MTE 07 MTS 07

GROUP II SHAFT S01 - KEYED Ø14 - IEC 71B14



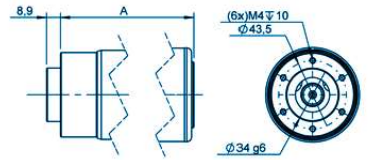
You didn't find your match ?

Contact us !

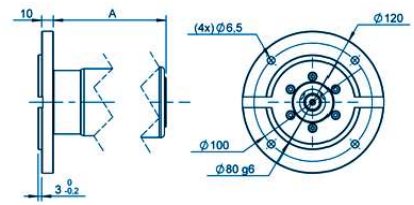
FLANGES & SHAFTS **GROUP III**

XTE 08 XTE 10 XTE 20 XTE 25

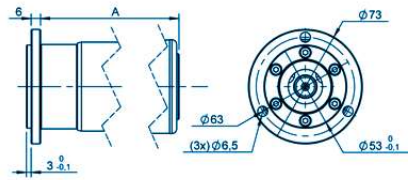
GROUP III FLANGE AA



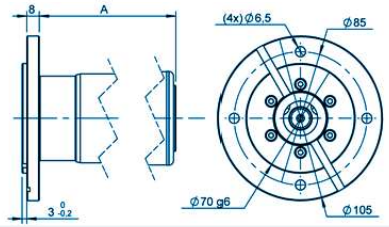
GROUP III FLANGE AB - IEC 80B14



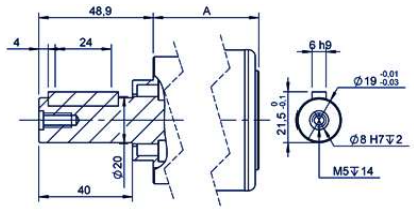
GROUP III FLANGE B



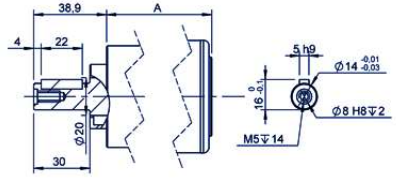
GROUP III FLANGE FJ - IEC 71B14



GROUP III SHAFT 001 - KEYED Ø19 -IEC 80B14



GROUP III SHAFT C25 - KEYED Ø14 -IEC 71B14



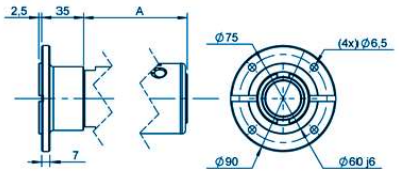
You didn't find your match ?

Contact us !

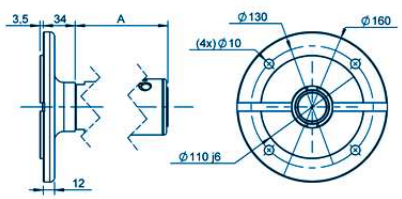
FLANGES **GROUP IV** (1/3)

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

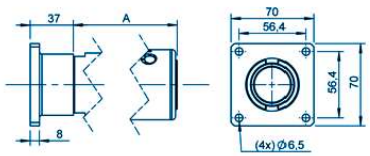
GROUP IV FLANGE AB - IEC63B14



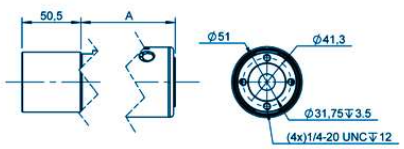
GROUP IV FLANGE AC - IEC71B5



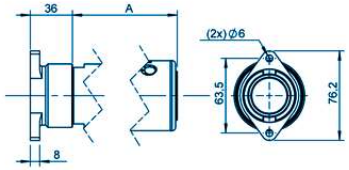
GROUP IV FLANGE AF



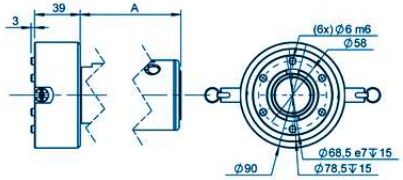
GROUP IV FLANGE AH



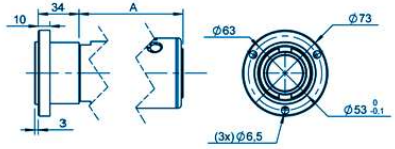
GROUP IV FLANGE AS



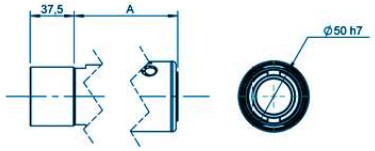
GROUP IV FLANGE AX - ARP



GROUP IV FLANGE B



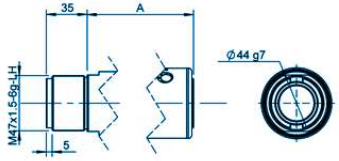
GROUP IV FLANGE BO



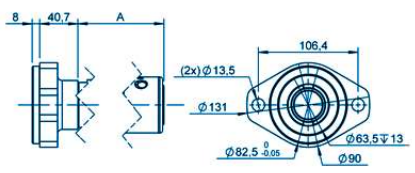
FLANGES **GROUP IV** (2/3)

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

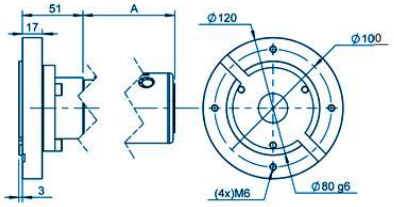
GROUP IV FLANGE F



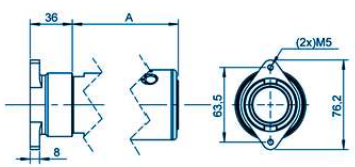
GROUP IV FLANGE FH



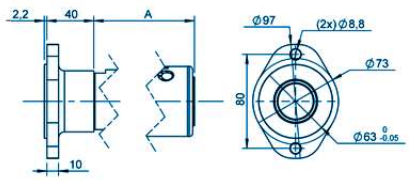
GROUP IV FLANGE FJ - IEC80B14



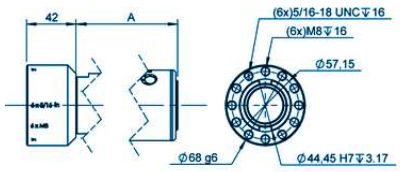
GROUP IV FLANGE J



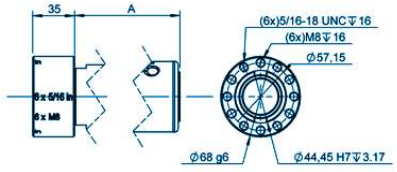
GROUP IV FLANGE L



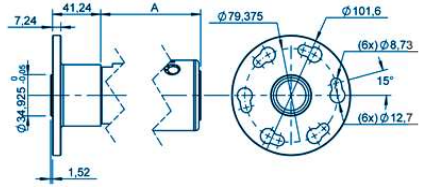
GROUP IV FLANGE M



GROUP IV FLANGE N



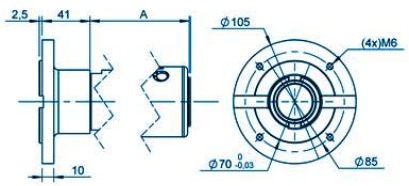
GROUP IV FLANGE Q



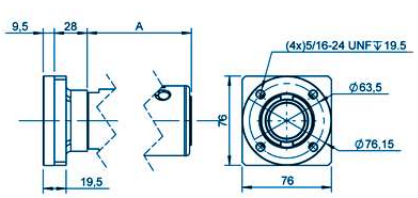
FLANGES GROUP IV (3/3)

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

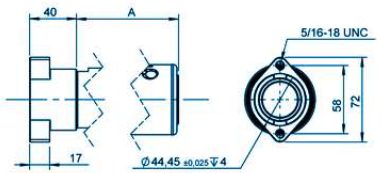
GROUP IV FLANGE R - IEC71B14



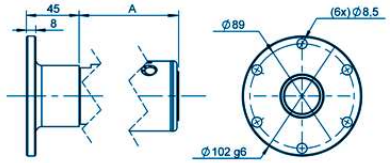
GROUP IV FLANGE S



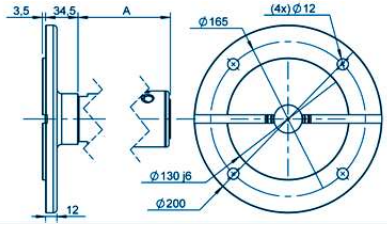
GROUP IV FLANGE U



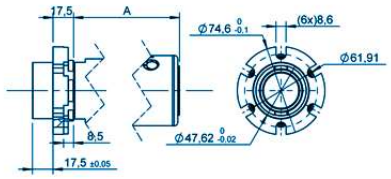
GROUP IV FLANGE V



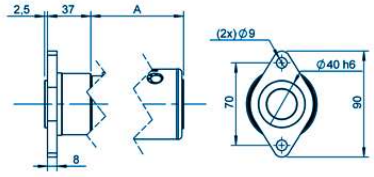
GROUP IV FLANGE W - IEC80B5



GROUP IV FLANGE Y



GROUP IV FLANGE Z



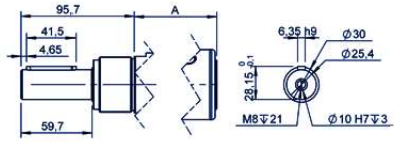
You didn't find your match ?

Contact us !

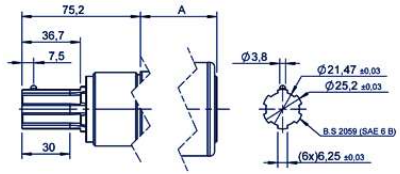
SHAFTS GROUP IV (1/3)

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

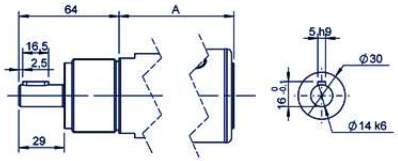
GROUP IV SHAFT 007 - KEYED Ø1''



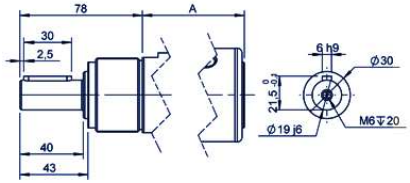
GROUP IV SHAFT 019 - SPLINED ARP



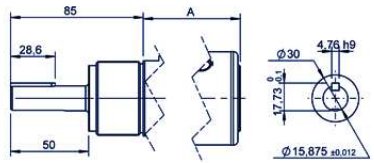
GROUP IV SHAFT C11 - KEYED Ø14 - IEC71B5 - IEC71B14



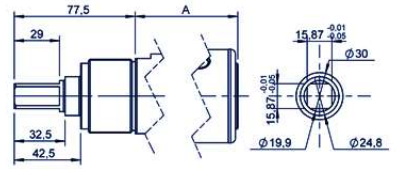
GROUP IV SHAFT C12 - KEYED Ø19 - IEC80B5 - IEC80B14



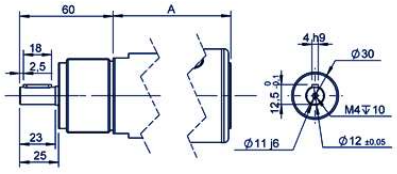
GROUP IV SHAFT C15 - KEYED Ø5/8''



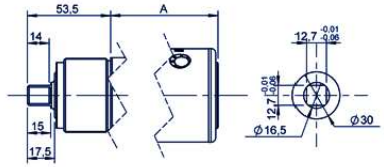
GROUP IV SHAFT C16 - SQUARE Ø5/8''



GROUP IV SHAFT C19 - KEYED Ø11 - IEC63B14



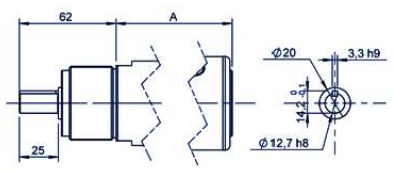
GROUP IV SHAFT CA1 - SQUARE Ø1/2''



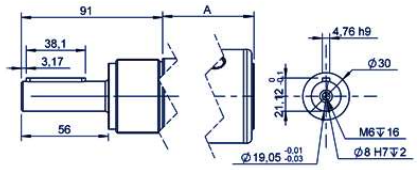
SHAFTS **GROUP IV** (2/3)

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

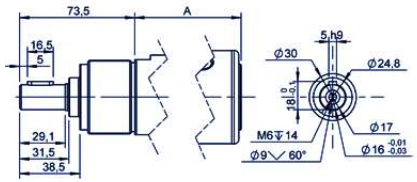
GROUP IV SHAFT CL1 - KEYED Ø1/2"



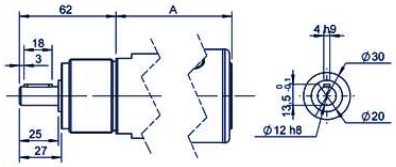
GROUP IV SHAFT CL2 - KEYED Ø3/4"



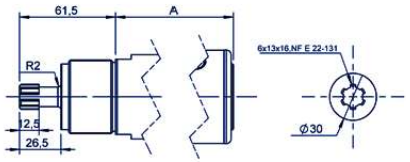
GROUP IV SHAFT CL6 - KEYED Ø16



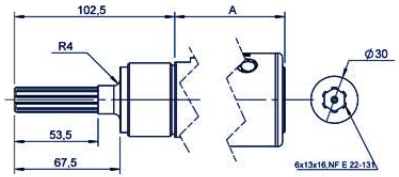
GROUP IV SHAFT CL9 - KEYED Ø12



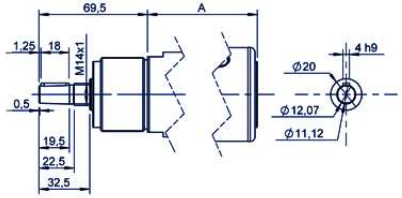
GROUP IV SHAFT CNC - SPLINED SHORT



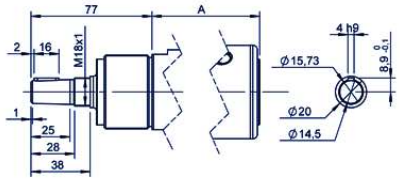
GROUP IV SHAFT CNL - SPLINED LONG



GROUP IV SHAFT CONICAL B12



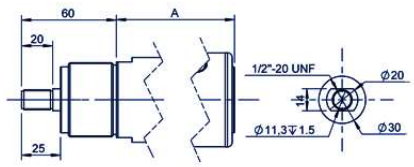
GROUP IV SHAFT CONICAL B16



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"



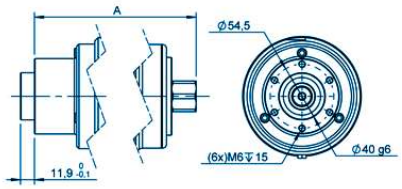
You didn't find your match ?

Contact us !

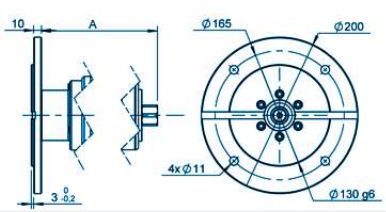
FLANGES & SHAFTS **GROUP V**

XTE 30

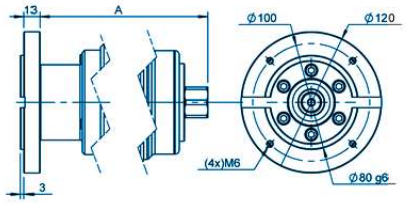
GROUP V FLANGE AA



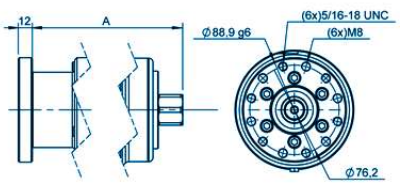
GROUP V FLANGE AB - IEC 80B5 - IEC 90B5



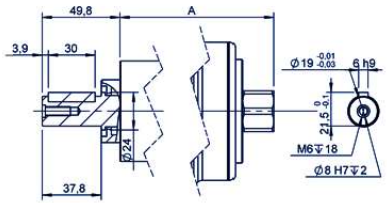
GROUP V FLANGE AC - IEC 80B14



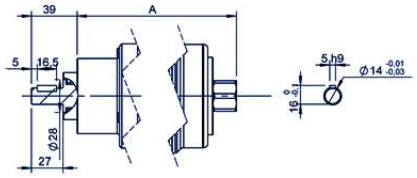
GROUP V FLANGE B



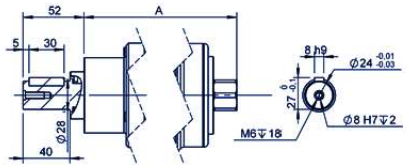
GROUP V SHAFT 001 - KEYED Ø19 -IEC 80B14 - IEC80B5



GROUP V SHAFT 002 - KEYED Ø14



GROUP V SHAFT CL6 - KEYED Ø24 -IEC 90B5



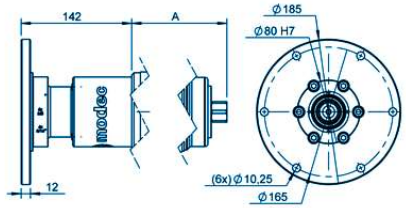
You didn't find your match ?

Contact us !

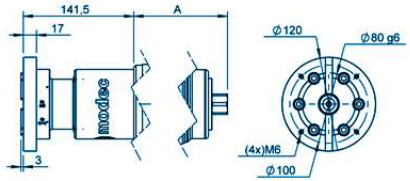
FLANGES **GROUP VI**

XTZ 08 XTZ 10 XTZ 20 XTZ 25 XTS 30

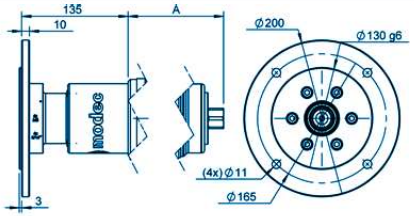
GROUP VI FLANGE AA



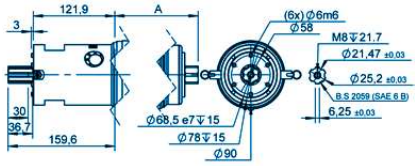
GROUP VI FLANGE AB - IEC80B14



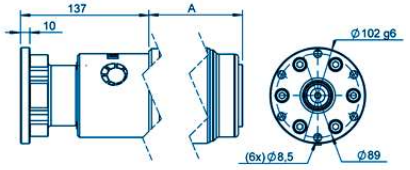
GROUP VI FLANGE AG - IEC80B5



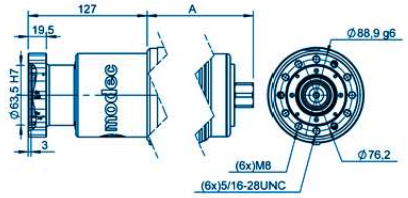
GROUP VI FLANGE AI WITH SHAFT CNW



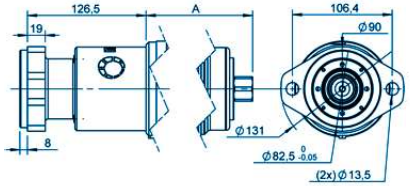
GROUP VI FLANGE AL



GROUP VI FLANGE B



GROUP VI FLANGE H



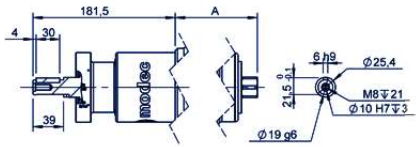
You didn't find your match ?

Contact us !

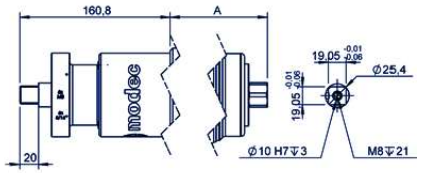
SHAFTS **GROUP VI**

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

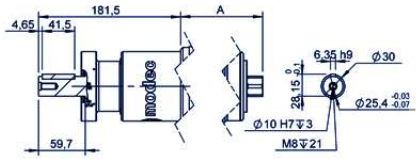
GROUP VI SHAFT 003 - KEYED Ø19 - IEC 80B14 - IEC 80B5



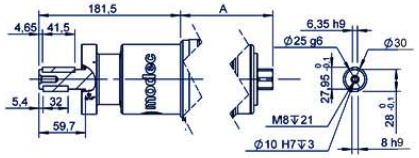
GROUP VI SHAFT CA1 - SQUARE 3/4''



GROUP VI SHAFT CL2 - KEYED Ø1''



GROUP VI SHAFT CL4 - KEYED Ø25



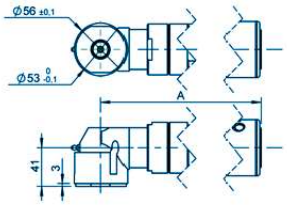
You didn't find your match ?

Contact us !

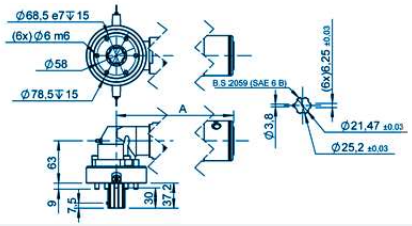
FLANGES **GROUP VII**

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

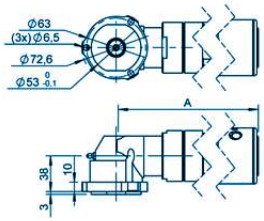
GROUP VII FLANGE AF



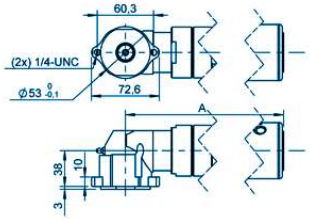
GROUP VII FLANGE AG WITH SHAFT 013



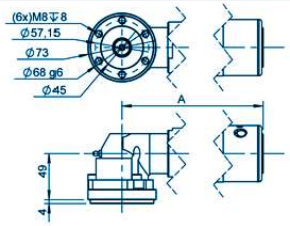
GROUP VII FLANGE B



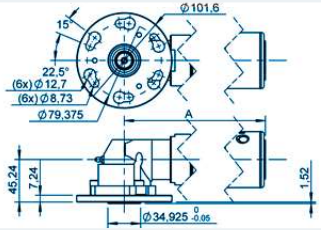
GROUP VII FLANGE E



GROUP VII FLANGE M



GROUP VII FLANGE Q



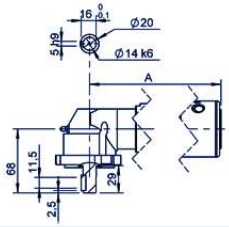
You didn't find your match ?

Contact us !

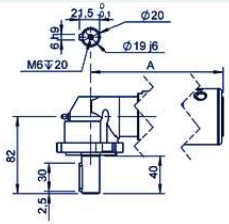
SHAFTS **GROUP VII** [1/2]

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

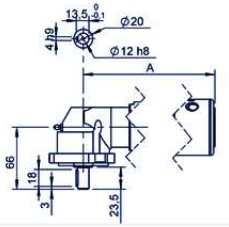
GROUP VII SHAFT 021 - KEYED Ø14



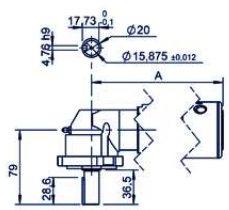
GROUP VII SHAFT C12 - KEYED Ø19



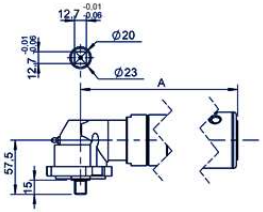
GROUP VII SHAFT C13 - KEYED Ø12



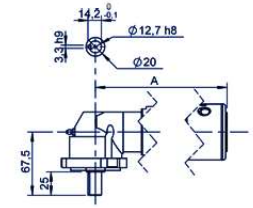
GROUP VII SHAFT C14 - KEYED Ø5/8''



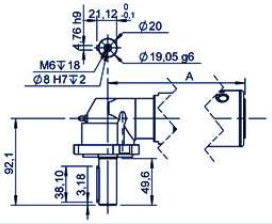
GROUP VII SHAFT CA1 - SQUARE 1/2''



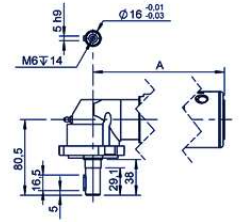
GROUP VII SHAFT CL1 - KEYED Ø1/2''



GROUP VII SHAFT CL2 - KEYED Ø3/4''



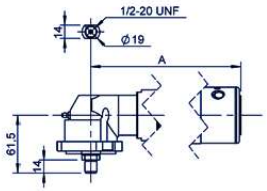
GROUP VII SHAFT CL6 - KEYED Ø16



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

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

GROUP VII SHAFT FI1 - THREADED Ø1/2''



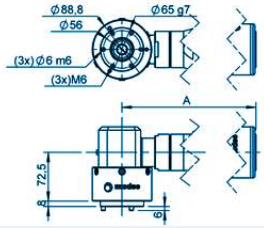
You didn't find your match ?

Contact us !

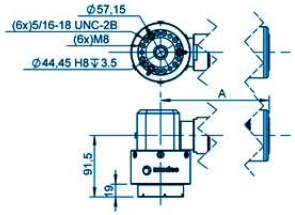
FLANGES **GROUP VIII**

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

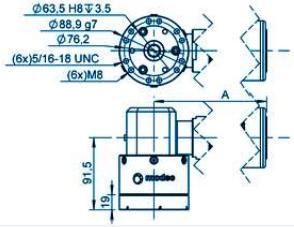
GROUP VIII FLANGE AA



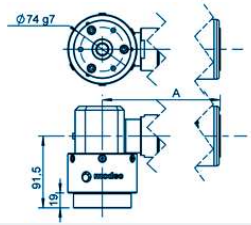
GROUP VIII FLANGE AB



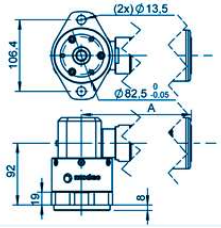
GROUP VIII FLANGE AC



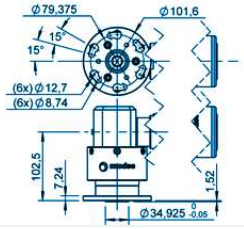
GROUP VIII FLANGE AD



GROUP VIII FLANGE AE



GROUP VIII FLANGE Q



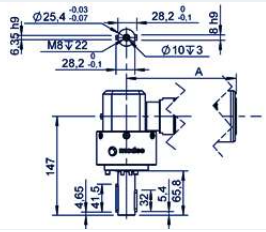
You didn't find your match ?

Contact us !

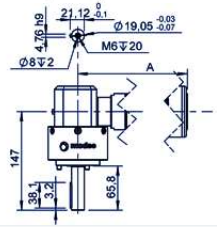
SHAFTS **GROUP VIII**

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

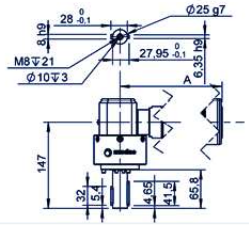
GROUP VIII SHAFT 001 - KEYED Ø1"



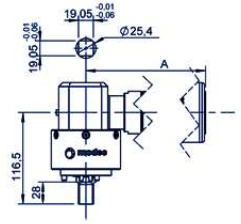
GROUP VIII SHAFT 002 - KEYED Ø3/4"



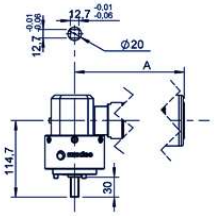
GROUP VIII SHAFT 003 - KEYED Ø25



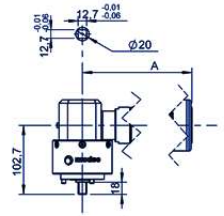
GROUP VIII SHAFT 004 - SQUARE 3/4"



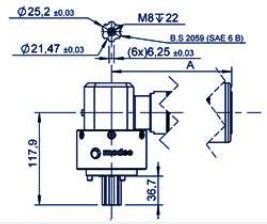
GROUP VIII SHAFT 005 - SQUARE 1/2" LONG



GROUP VIII SHAFT CA1 - SQUARE 1/2" SHORT



GROUP VIII SHAFT CNW - SPLINED



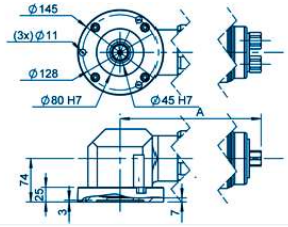
You didn't find your match ?

Contact us !

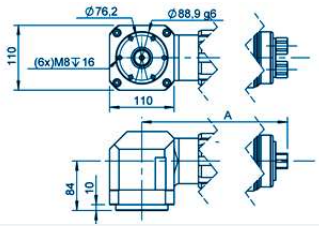
FLANGES & SHAFTS **GROUP IX**

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

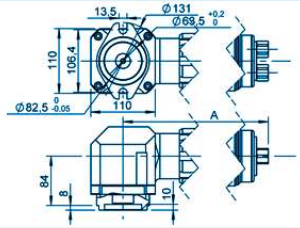
GROUP IX FLANGE A



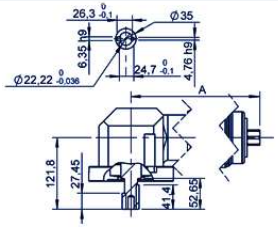
GROUP IX FLANGE B



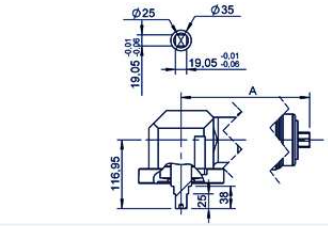
GROUP IX FLANGE H



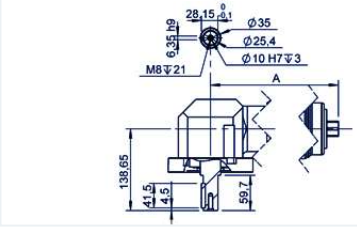
GROUP IX SHAFT 001 - KEYED Ø7/8''



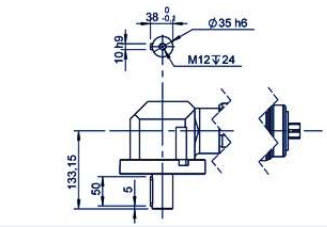
GROUP IX SHAFT 003 - KEYED Ø3/4''



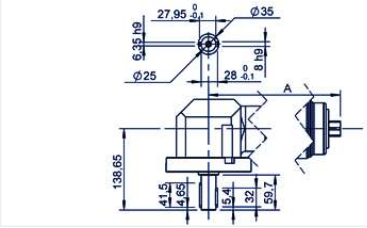
GROUP IX SHAFT CL2 - KEYED Ø1''



GROUP IX SHAFT CL3 - KEYED Ø35



GROUP IX SHAFT CL4 - KEYED Ø25



You didn't find your match ?

Contact us !

OPTIONS & ACCESSORIES

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

Options are built into motors during manufacturing :

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

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

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

* Reversible motors only ** Non reversible motors only

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

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

OPTIONS
EXHAUST COLLECTORS

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

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

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

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

ATEX CERTIFICATION

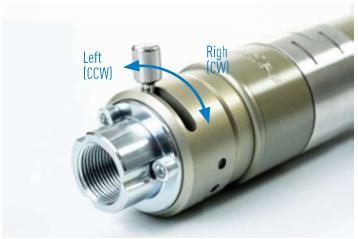
All **modec** air motors can be certified ATEX on request.

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

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

LEFT/RIGHT TRIGGER

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



LUBRICATION FREE

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

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

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

« KIT START »

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

STAINLESS STEEL MOTORS

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

INTEGRATED SPEED CONTROL

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

ACCESSORIES
FILTERING, PRESSURE REGULATION AND LUBRICATION UNITS (FRL)

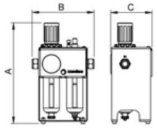
The Filtering, pressure Regulation and Lubrication unit (FRL) is a mandatory element for a good air motor functioning, performance, service life and control. It ensures fluid (compressed air or inert gas) filtering, drying and lubrication so that the motor will be fed with a « clean » gas. It also controls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

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

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

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

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



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

SAFETY AIR TREATMENT BOX (SAT BOX)

Safety

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

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

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

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

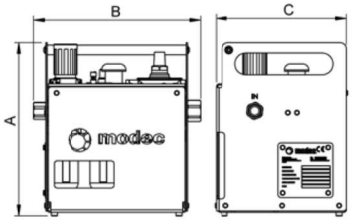
All these safety features are energized by air pressure, without any other source of energy required. This makes it possible to have it ATEX certified on request.

Air treatment

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

Easy control

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



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

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

PNEUMATIC OIL modec CO-16

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

Synthetic oil

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

MOTOR CONTROL HANDLES

Safety handles

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

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

Progressive control handle

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

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

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

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

Left / Right switch

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

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

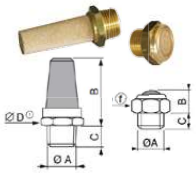
FILTERS & SILENCERS

1• STANDARD EXHAUST SILENCERS

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

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

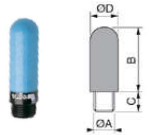
• METALLIC SILENCERS



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

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

• PLASTIC SILENCERS



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

Polyethylene body, technical polymer connection piece.

OPTIONS & ACCESSORIES

2• HEAVY DUTY EXHAUST SILENCERS

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

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

Zinc-plated steel dichromate body, brass sieve

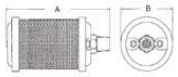
3• HIGH FLOW EXHAUST MUFFLER

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

94% Flow Factor

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

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



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

4• EXHAUST FILTERS & SILENCERS

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

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

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

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

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

5• AIR MOTORS / SILENCERS CORRESPONDENCE TABLE AND POWER IMPACT

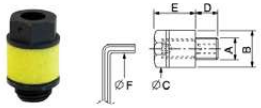
		05		07		08		10XT	10RV		20 XT	20 RV		25		30	
		Exhaust	Inlet	Exhaust	Inlet	Exhaust	Inlet	Exhaust	Exhaust	Inlet	Exhaust	Exhaust	Inlet	Exhaust	Inlet	Exhaust	Inlet
	Size	G1/8	G1/8	G1/4	G1/8	G3/8	G1/4	G3/4	G3/4	G3/8	G3/4	G3/4	G3/8	G3/4	G3/8	G3/4	G1/2
Plastic	Reference	AC166	AC166	AC150	AC166	AC183	AC150	AC152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

AIRFLOW CONTROLLERS

1• SPEED CONTROL MUFFLERS

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

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



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

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

2• IN-LINE FLOW REGULATORS

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

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

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

MAINTENANCE KITS

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

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

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

EXHAUST COLLECTOR KITS

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

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

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

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

SPECIAL PRODUCTS & TOOLS

NUT RUNNERS

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

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

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

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

TAPPING MACHINES

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

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

Refer to the TRS08 product data sheet on page 70.

SPECIAL MOTORS

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

Submarine stainless steel air motor

High speed motor for deburring / machining

Special shape & dimension air motor

Air fail brake motor

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

Don't hesitate to contact us

www.modec.fr
+33 475 402 715
sales@modec.fr