

servovalve

PNEUMATIC SINGLE ACTING QUARTER TURN SCOTCH-YOKE ACTUATOR

series RJPM-RSPM-RWPM-RCPM

SERVOVALVE spa

Via Quasimodo 27 - 20010 S. STEFANO TICINO (MI)
PHONE: 0039 - 029748461
FAX : 0039 - 0297484646
E-mail: servovalve@servovalve.it

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING

SERIES RJPM - RSPM - RWPM - RCPM

DESCRIPTION

All the Servovalve series of quarter-turn scotch-yoke actuators are designed and manufactured for the transmission of high torque suited for ball or butterfly valves, plug etc for on-off or throttling service.

The design, engineering and materials used in construction ensure optimum performances in the heaviest work condition in every environment according to the international standard specifications.

In the central housing a slotted link kinematism provides to transform the linear motion of the rod into the rotary motion of the valve shaft.

The rod is alternatively pushed either from the thrust of a pneumatic cylinder piston or from a compressed spring.

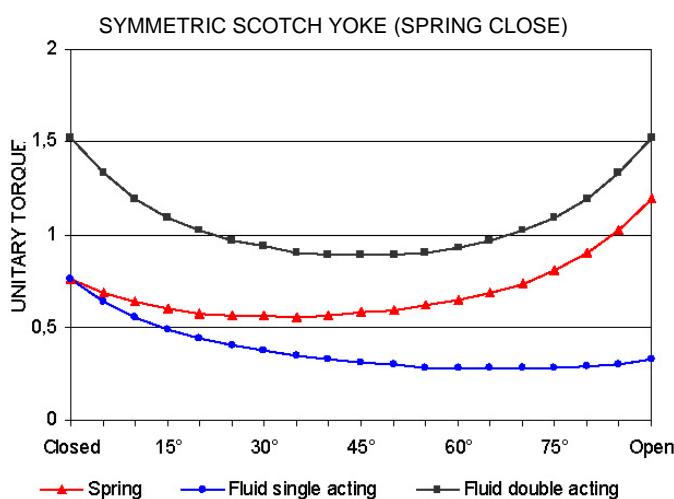
The central housing is designed to accept different types of scotch-yoke mechanisms (symmetrical, clockwise or counter-clockwise canted) to allow the choice of the best actuator performance for every kind of valve.

These actuators can be supplied with two kinds of kinematism: symmetrical (**RJPM** and **RSPM** series) or canted (**RWPM** and **RCPM** series)



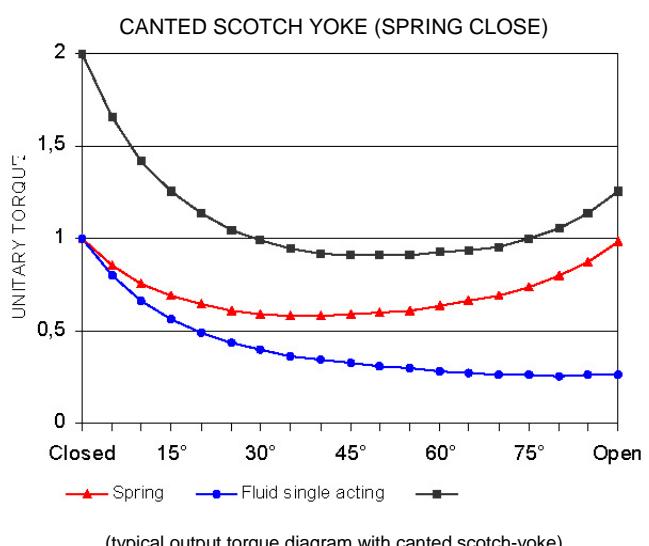
SYMMETRICAL SCOTCH-YOKE

RJPM and **RSPM** series are available for the on-off or throttling valves in which it is requested an exalted torque during all the valve shaft running.



CANTED SCOTCH-YOKE

RWPM and **RCPM** series are ideally suited for the valves where it is requested an exalted torque in a specific final position (generally closed position or failure position) compared to the run and the opposite initial position.



PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING

SERIES RJPM - RSPM - RWPM - RCPM

MAIN DESIGN FEATURES

The actuators have a modular construction design.

All actuators have a totally enclosed module that provides complete protection for all moving parts, minimises the possibility of internal misalignment, and reduce the chance of injury to operating personnel.

They are realised with a central housing to which a pneumatic cylinder and a springs cartridge can be coupled in either opposite side.

Every central body can be equipped with a series of standard pneumatic cylinders and with a special springs cartridge to obtain the best choice of the actuator in every kind of application.

The chromium plated rod, sliding on PTFE charged bushings, turns the link by the cylinder piston and spring action alternatively to ensure minimum friction and long service life.

For the bigger actuators (series RCPM and RSPM) alloy steel chromium plated bar supports the transverse load thrust of the scotch-yoke to assure a regular movement also in a continuous throttling action.

The pneumatic cylinder are refaced and chromium plated.

The spring cartridge, fully closed to prevent spring corrosion in aggressive environment, is designed to allow the replacement of the springs in field with the utmost security.

Special safety-stay-bolts allow to open the cartridge and to take out the springs only after the spring preload is discharged; the replaced springs are again preload by means the stay-bolt inscrewing before to close the cartridge without special tools.

The piston is equipped with a PTFE charged slide to assure a linear drive and alignment under all load conditions allowing a long life and a perfect tight of two o-ring gaskets.

Link and joint block are connected by two hard bronze alloy sliding rings to allow a low friction factor and minimise wear of moving parts.

Field adjustable travel-stop are available in both directions to optimise the required valve stroke

The central cover is equipped of a standard valve position indicator.

SPECIAL EXECUTION

Units with particular materials for special environmental conditions (low or high temperature, aggressive medium ect.) can be supplied on request.

MANUAL EMERGENCY DEVICE

All series of actuator can be equipped with a manual emergency device as:

handwheel

manual reductor with handwheel

hydraulic cylinder with manual oil pump, tank and relevant equipment

EQUIPMENTS

Each execution can be equipped with devices and accessories for the local or remote action and control as:

limit switches

solenoid valve

flow control valve

positioner and I/P converter

position transmitter

air tank for emergency

special pneumatic end electric equipment

TEST

Every detail have been designed and tested with care and is then checked during the production process (from the receipt of the raw materials to final testing) against the strictest reliability criteria required under the ISO EN 9001 quality norm, which has been fully adopted by Servovalve.

All finished actuators are tested and certified by the Servovalve quality service before being released to external testers at the various authorising bodies and the customer's own inspectors.



PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING

SERIES RJPM - RSPM - RWPM - RCPM

TECHNICAL PERFORMANCE

Pressure range:

Minimum working pressure: 3 bar
Maximum working pressure: see technical sheet
Cylinder test pressure: 1,5 max allowable pressure
Actuator test: 1,2 actuator working pressure
On request available for higher work and max pressure

Angular stroke:

Turn: 90° +/- 5°

Environmental temperature range:

min: -20°C
max: +80°C
On request for lower or higher temperature

Operating medium:

air
gas
any medium compatible with standard materials

Actuator seals gaskets:

standard: N.B.R. (-20°C + 80°C)
low temp: fluorosilicone
high temp: viton

Painting:

Standard execution has surface protection with:
sandblasting
1 primer layer
1 epoxy finish layer
On request available other painting

Standard execution:

Without any other indication the cylinder and the spring cartridge are assembled to the central housing in way to fail with spring rotating clockwise (watching the actuator from the top).
Only on request actuators can be supplied with spring rotating counter-clockwise.

Fail rotation:

The spring cartridge and the cylinder can be assembled to both sides of the central housing to ensure spring return action (fail position) in either clockwise or counter-clockwise direction.



CERTIFICATION

From 1995 Servovalve was awarded certification by international body DNV due to its full compliance with Quality Norm EN 9001.

From 2002 Servovalve actuators can be supplied with the CE mark according to the 97/23/CE directive (PED) and ATEX directive 94/9/ce under the approval of the notified body DNV.

SERVICE

The Servovalve personnel guarantees prompt assistance to the customer during the start up of the plant and its normal working life.

MAINTENANCE

The inner parts of the actuator are life-lubricated, therefore only replacement of the rubber gaskets may become necessary after a long working time as pointed out in the operating book.



SPECIAL ACTUATORS

Actuator for special performances or for torque requirements greater than shown, please contact our sales department.

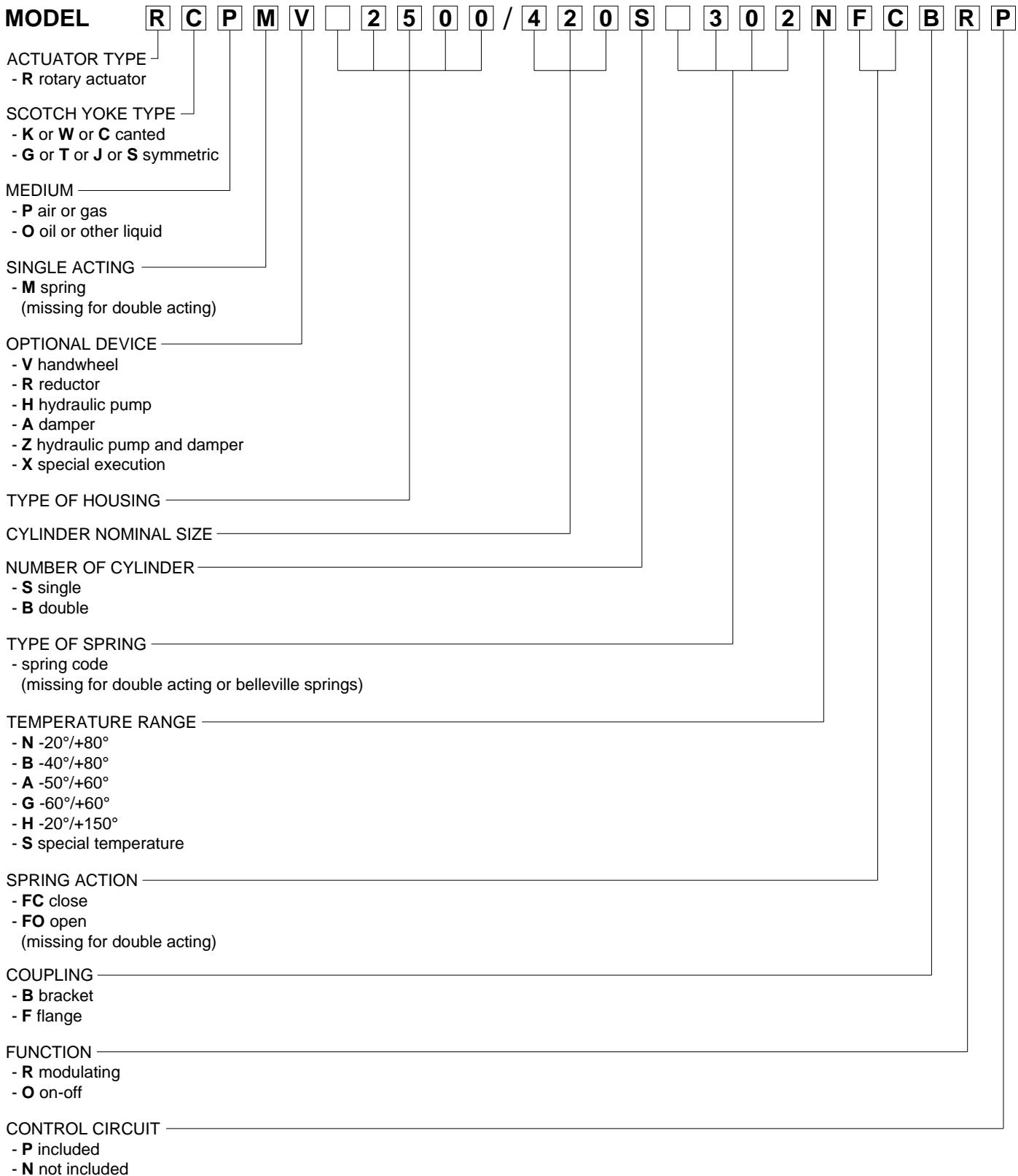
PNEUMATIC QUARTER TURN ACTUATOR

SCOTCH-YOKE EXECUTION

SINGLE ACTING

SERIES RJPM - RSPM - RWPM - RCPM

SCOTCH YOKE ACTUATOR CODE MODE



PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING

SERIES RJPM - RSPM - RWPM - RCPM



PNEUMATIC QUARTER TURN ACTUATOR

SCOTCH-YOKE EXECUTION

SINGLE ACTING

SERIES RJPM - RSPM

ACTUATORS TORQUE

SYMMETRIC

SPRING TO CLOSE or SPRING TO OPEN

ACTUATOR TYPE	SPRING	SPRING			AIR MIN PRESSURE												PRESS. MAX. bar	AIR DIS- PLACED lt	APPROX. WEIGHT kg			
		BREAK	RUN	END	3,5 bar (50 psi)			4 bar (58 psi)			5 bar (72 psi)			5,5 bar (80 psi)			6 bar (87 psi)					
		Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm					
RJPM 900/250/..	209	1740	780	1060	810	120	130	1070	360	390	1610	710	930	1870	860	1190	2140	1020	1460	10	9	240
	201	2390	1080	1450				1220	270	280	1480	500	540	1750	680	810				10	9	260
RJPM 900/300/..	209	1740	780	1060	1630	720	950	2010	950	1330	2780	1400	2100	3170	1630	2490	3550	1860	2870	10	13	300
	201	2390	1080	1450	1240	300	300	1620	600	680	2390	1080	1450	2780	1300	1840	3160	1530	2220	10	13	320
RJPM 900/360/..	201	2390	1080	1450	2420	1100	1480	2980	1420	2040	4080	2080	3140	4640	2410	3700	5190	2740	4250	9	18	370
	202	3430	1540	2080	1790	450	440	2350	870	1000	3450	1560	2100	4010	1890	2660	4560	2220	3210	10	18	390
	203	4190	1890	2540				1890	240	240	2990	1150	1340	3550	1500	1900	4100	1830	2450	10	18	440
	204	5220	2350	3170							2360	310	310	2920	860	870	3470	1260	1420	10	18	460
RJPM 900/420/..	201	2390	1080	1450	3950	2000	3010	4720	2460	3780	6260	3370	5320	7040	3830	6100	7810	4290	6870	7	26	440
	202	3430	1540	2080	3320	1480	1970	4090	1940	2740	5630	2850	4280	6410	3310	5060	7180	3770	5830	7	26	460
	203	4190	1890	2540	2860	1060	1210	3630	1560	1980	5170	2470	3520	5950	2930	4300	6720	3390	5070	7	26	510
	204	5220	2350	3170	2230	180	180	3000	920	950	4540	1950	2490	5320	2410	3270	6090	2870	4040	8	26	530
RJPM 1400/360/..	301	2820	1360	1960	2560	1210	1700	3200	1590	2340	4500	2360	3640	5140	2740	4280	5790	3120	4930	10	20	490
	302	4030	1940	2800	1720	480	490	2360	940	1130	3660	1720	2430	4300	2100	3070	4950	2490	3720	10	20	510
	303	4930	2380	3420				1740	240	230	3040	1240	1530	3680	1640	2170	4330	2020	2820	10	20	560
RJPM 1400/420/..	302	4030	1940	2800	3510	1640	2280	4420	2170	3190	6220	3240	4990	7120	3780	5890	8030	4310	6800	9	28	590
	303	4930	2380	3420	2890	1150	1380	3800	1700	2290	5600	2770	4090	6500	3310	4990	7410	3840	5900	10	28	640
	304	6140	2960	4270	2040	170	170	2950	990	1080	4750	2140	2880	5650	2670	3780	6560	3210	4690	10	28	710
RJPM 1400/500/..	302	4030	1940	2800	5330	2720	4100	6500	3400	5270	8820	4780	7590	9980	5470	8750	11140	6160	9910	7	37	730
	303	4930	2380	3420	4710	2250	3200	5880	2940	4370	8200	4310	6690	9360	5000	7850	10520	5690	9010	7	37	780
	304	6140	2960	4270	3860	1600	1990	5030	2300	3160	7350	3680	5480	8510	4370	6640	9670	5060	7800	8	37	850
	313	7740	3730	5380	2750	390	390	3920	1390	1560	6240	2840	3880	7400	3530	5040	8560	4220	6200	8	37	870
	305	8830	4260	6130				3170	460	470	5490	2250	2790	6650	2960	3950	7810	3650	5110	9	37	930
RJPM 1400/520/..	303	4930	2380	3420	6240	3150	4730	7620	3970	6110	10380	5610	8870	11760	6420	10250	13140	7240	11630	6	43	850
	304	6140	2960	4270	5390	2520	3520	6770	3340	4900	9530	4970	7660	10910	5790	9040	12290	6610	10420	7	43	930
	313	7740	3730	5380	4280	1630	1920	5660	2500	3300	8420	4140	6060	9800	4950	7440	11180	5770	8820	7	43	940
	305	8830	4260	6130	3530	830	830	4910	1880	2210	7670	3570	4970	9050	4380	6350	10430	5200	7730	7	43	1010
	324	10180	4910	7070				3970	860	860	6730	2860	3620	8110	3680	5000	9490	4500	6380	8	43	1050
RSPM 2500/420/..	303	6410	2940	4030	4180	1560	1800	5350	2310	2970	7700	3700	5320	8870	4400	6490	10040	5090	7660	10	37	800
	304	7990	3660	5020	3190	220	220	4360	1350	1390	6710	2900	3740	7880	3600	4910	9050	4290	6080	10	37	870
	313	10070	4620	6330							5400	1620	1660	6570	2450	2830	7740	3210	4000	10	37	890
	305	11480	5260	7220							4510	240	250	5680	1420	1420	6850	2370	2590	10	37	950
RSPM 2500/500/..	303	6410	2940	4030	6540	3020	4160	8060	3920	5680	11080	5710	8700	12590	6600	10210	14100	7500	11720	10	47	940
	304	7990	3660	5020	5550	2170	2580	7070	3110	4100	10090	4900	7120	11600	5800	8630	13110	6700	10140	10	47	1010
	313	10070	4620	6330	4240	510	500	5760	1890	2020	8780	3850	5040	10290	4750	6550	11800	5640	8060	10	47	1030
	305	11480	5260	7220				4870	600	610	7890	3060	3630	9400	4030	5140	10910	4920	6650	10	47	1090
RSPM 2500/520/..	304	7990	3660	5020	7540	3390	4570	9330	4460	6360	12920	6580	9950	14710	6750	11740	16510	8710	13540	8	56	1110
	313	10070	4620	6330	6230	2220	2490	8020	3390	4280	11610	5530	7870	13400	6590	9660	15200	7650	11460	9	56	1130
	305	11480	5260	7220	5340	1070	1080	7130	2550	2870	10720	4810	6460	12510	5870	8250	14310	6940	10050	9	56	1190
	324	13230	6060	8320				6030	1120	1120	9620	3870	4710	11410	4990	6500	13210	6050	8300	9	56	1230
	315	15140	6940	9520							8420	2670	2800	10210	3910	4590	12010	5060	6390	10	56	1280
	325	16720	7670	10520							7420	1210	1220	9210	2890	3010	11010	4140	4810	10	56	1310
RSPM 2500/600/..	304	7990	3660	5020	10050	4880	7080	12210	6160	9240	16510	8710	13540	18670	9990	15700	20820	11270	17850	7	68	1230
	313	10070	4620	6330	8740	3830	5000	10900	5110	7160	15200	7660	11460	17360	8940	13620	19510	10210	15770	7	68	1250
	305	11480	5260	7220	7850	3040	3590	10010	4390	5750	14310	6940	10050	16470	8220	12210	18620	9490	14360	7	68	1310
	324	13230	6060	8320	6750	1840	1840	8910	3410	4000	13210	6060	8300	15370	7330	10460	17520	8610	12610	8	68	1350
	315	15140	6940	9520				7710	2080	2090	12010	5070	6390	14170	6360	8550	16320	7640	10700	8	68	1400
	325	16720	7670	10520				6710	500	510	11010	4140	4810	13170	5530	6970	15320	6840	9120	8	68	1430
RSPM 2500/620/..	313	10070	4620	6330	11490	5460	7750	14030	6970	10290	19130	9980	15390	21670	11490	17930	24220	13000	20480	6	80	1380
	305	11480	5260	7220	106																	

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING

SERIES RJPM - RSPM

ACTUATORS TORQUE

SYMMETRIC

SPRING TO CLOSE or SPRING TO OPEN

ACTUATOR TYPE	SPRING	SPRING			AIR MIN PRESSURE																PRESS. MAX. bar	AIR DIS- PLACED lt	APPROX. WEIGHT kg	
		3,5 bar (50 psi)			4 bar (58 psi)			5 bar (72 psi)			5,5 bar (80 psi)			6 bar (87 psi)										
		BREAK	RUN	END	BREAK	RUN	END	BREAK	RUN	END	BREAK	RUN	END	BREAK	RUN	END	BREAK	RUN	END					
RSPM 2500/700/..	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	Nm	5	100	1580		
	313	10070	4620	6330	14460	7220	10720	17430	8980	13690	23370	12500	19630	25450	13550	21190	27330	14420	22420	5,5	100	1640		
	305	11480	5260	7220	13570	6500	9310	16540	8260	12280	22480	11790	18220	24350	12660	19440	27330	14420	22420	6	100	1680		
	324	13230	6060	8320	12470	5620	7560	15440	7380	10530	21380	10900	16470	23150	11690	17530	26130	13450	20510	6	100	1730		
	315	15140	6940	9520	11270	4590	5650	14240	6410	8620	20180	9930	14560	22150	10890	15950	25130	12650	18930	6	100	1760		
RSPM 2500/800/..	325	16720	7670	10520	10270	3650	4070	13240	5580	7040	19180	9130	12980								4	131	1810	
	324	13230	6060	8320	20910	10620	16000	25090	13090	20180										4	131	1860		
	315	15140	6940	9520	19710	9650	14090	23890	12120	18270										4	131	1890		
RSPM 4500/420/..	403	8380	3860	5340	5350	2000	2310	6870	2980	3830	9930	4790	6890	11450	5690	8410	12980	6600	9940	10	47	1060		
	404	10440	4820	6650	4040	240	250	5560	1710	1770	8620	3730	4830	10140	4640	6350	11670	5540	7880	10	47	1160		
	413	13160	6070	8390							6880	2060	2110	8400	3140	3630	9930	4130	5160	10	47	1180		
	405	15010	6930	9560							5710	250	260	7230	1780	1780	8760	3020	3310	10	47	1270		
RSPM 4500/500/..	404	10440	4820	6650	7130	2800	3340	9100	4020	5310	13040	6350	9250	15000	7520	11210	16970	8690	13180	10	60	1260		
	413	13160	6070	8390	5390	610	620	7360	2420	2590	11300	4970	6530	13260	6130	8490	15230	7300	10460	10	60	1290		
	405	15010	6930	9560				6190	730	740	10130	3940	4680	12090	5190	6640	14060	6360	8610	10	60	1380		
	424	17300	7980	11020							8670	2390	2390	10630	3850	4350	12600	5140	6320	10	60	1420		
RSPM 4500/520/..	413	13160	6070	8390	7980	2860	3210	10320	4380	5550	15000	7160	10230	17340	8550	12570	19670	9940	14900	10	71	1390		
	405	15010	6930	9560	6810	1360	1360	9150	3290	3700	13830	6220	8380	16170	7610	10720	18500	8990	13050	10	71	1480		
	424	17300	7980	11020				7690	1410	1410	12370	4990	6090	14710	6440	8430	17040	7830	10760	10	71	1530		
	415	19800	9140	12610							10780	3430	3590	13120	5040	5930	15450	6540	8260	10	71	1600		
RSPM 4500/600/..	425	21870	10090	13930							9460	1520	1520	11800	3710	3860	14130	5330	6190	10	71	1640		
	405	15010	6930	9560	10100	3920	4650	12910	5680	7460	18530	9010	13080	21340	10670	15890	24150	12340	18700	10	86	1610		
	424	17300	7980	11020	8640	2360	2360	11450	4400	5170	17070	7840	10790	19880	9510	13600	22690	11180	16410	10	86	1660		
	415	19800	9140	12610				9860	2670	2670	15480	6550	8290	18290	8240	11100	21100	9900	13910	10	86	1730		
RSPM 4500/620/..	425	21870	10090	13930				8540	600	600	14160	5350	6220	16970	7160	9030	19780	8850	11840	10	86	1770		
	405	15010	6930	9560	13690	6140	8240	17010	8110	11560	23660	12050	18210	26980	14020	21530	30300	15990	24850	8	101	1760		
	424	17300	7980	11020	12230	4900	5950	15550	6950	9270	22200	10890	15920	25520	12850	19240	28840	14820	22560	8	101	1800		
	415	19800	9140	12610	10640	3330	3450	13960	5590	6770	20610	9610	13420	23930	11580	16740	27250	13550	20060	9	101	1880		
RSPM 4500/700/..	425	21870	10090	13930	9320	1380	1380	12640	4320	4700	19290	8560	11350	22610	10530	14670	25930	12500	17990	9	101	1920		
	424	17300	7980	11020	16120	7280	9840	20000	9580	13720	27750	14180	21470	31630	16480	25350	35510	18780	29230	7	127	2010		
	415	19800	9140	12610	14530	5950	7340	18410	8310	11220	26160	12910	18970	30040	15210	22850	33920	17500	26730	7	127	2090		
RSPM 4500/800/..	425	21870	10090	13930	13210	4710	5270	17090	7230	9150	24840	11850	16900	28720	14150	20780	32600	16450	24660	8	127	2130		
	415	19800	9140	12610	25570	12550	18380	31020	15780	23830	41930	22250	34740							5	166	2340		
RSPM 7500/500/..	425	21870	10090	13930	24250	11500	16310	29700	14730	21760	40610	21200	32670							5	166	2380		
	404	13820	5810	7310	10930	3920	4420	13530	5620	7020	18740	8750	12230	21350	10300	14840	23960	11840	17450	10	82	1590		
	413	17420	7320	9220	9020	810	820	11620	3390	3420	16830	6950	8630	19440	8550	11240	20205	10100	13850	10	82	1620		
	405	19870	8350	10510				10330	970	970	15540	5530	6180	18150	7250	8790	20760	8910	11400	10	82	1710		
	424	22900	9620	12110							13940	3160	3150	16550	5420	5760	19160	7210	8370	10	82	1750		
RSPM 7500/520/..	415	26210	11020	13870	11160	1790	1800	14250	4620	4890	20440	8710	11080	23540	10560	14180	26630	12400	17270	10	97	1820		
	424	22900	9620	12110	12650	1870	1870	142650	4740	1860	18840	7000	8050	21940	9010	11150	25030	10930	14240	10	97	1870		
	415	26210	11020	13870							17080	4740	4740	20180	7090	7840	23270	9150	10930	10	97	1940		
	425	28940	12170	15310							15640	2010	2010	18740	5110	5110	21830	7510	8200	10	97	1980		
RSPM 7500/600/..	424	22900	9620	12110	13910	3130	3120	17630	6190	6840	25070	10950	14280	28780	13160	17990	32500	15360	21710	10	117	2010		
	415	26210	11020	13870				15870	3530	3530	23310	9170	10970	27020	11540	14680	30740	13760	18400	10	117	2090		
	425	28940	12170	15310				14430	800	800	21870	7530	8240	25580	10030	11950	29300	12390	15670	10	117	2130		
RSPM 7500/620/..	415	26210	11020	13870	16910	4570	4570	21300	7840	8960	30100	13370	17760	34490	15980	22150	38890	18590	26550	10	138	2250		
	425	28940	12170	15310	15470	1830	1840	19860	6060	6230	28660	11980	15030	33050	14660	19420	37450	17260	23820	10</				

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING

SERIES RWPM - RCPM

ACTUATORS TORQUE

CANTED

SPRING TO CLOSE

ACTUATOR TYPE	SPRING	SPRING TO CLOSE			AIR TO OPEN																PRESS. MAX. bar	AIR DIS- PLACED lt	APPROX. WEIGHT kg	
					3,5 bar (50 psi)			4 bar (58 psi)			5 bar (72 psi)			5,5 bar (80 psi)			6 bar (87 psi)							
		BREAK (90°) Nm	RUN (35°) Nm	END (0°) Nm	BREAK (0°) Nm	RUN (90°) Nm	END (0°) Nm																	
RWPM 900/250/..	209	1430	820	1380	1070	110	110	1420	320	330	2120	680	770	2470	850	990	2820	1020	1210	10	10	240		
	201	1970	1130	1900				1600	230	230	1950	450	450	2300	630	670	2720	350	350	10	10	260		
RWPM 900/300/..	209	1430	820	1380	2150	690	790	2660	940	1100	3670	1410	1740	4170	1650	2050	4670	1880	2370	10	14	300		
	201	1970	1130	1900	1630	250	250	2140	550	560	3150	1050	1200	3650	1290	1510	4150	1530	1830	10	14	320		
	202	2820	1620	2720				2330	350	350	2830	660	660	3330	930	980	350	350	350	10	14	340		
	203	3450	1980	3330							2220	40	30	2720	350	350	350	350	350	10	14	390		
RWPM 900/360/..	209	1430	820	1380	3710	1430	1760	4430	1770	2220	5880	2450	3130	6610	2790	3590	7340	3130	4040	7	20	350		
	201	1970	1130	1900	3190	1070	1220	3910	1410	1680	5360	2090	2590	6090	2430	3050	6820	2770	3500	8	20	370		
	202	2820	1620	2720	2370	370	370	3090	800	830	4540	1520	1740	5270	1870	2200	6000	2210	2650	8	20	390		
	203	3450	1980	3330				2480	200	200	3930	1060	1110	4660	1430	1570	5390	1780	2020	8	20	440		
RWPM 900/420/..	202	2820	1620	2720	4370	1430	1630	5380	1920	2260	7410	2870	3530	8420	3340	4170				5,5	28	460		
	203	3450	1980	3330	3760	970	1000	4770	1480	1630	6800	2450	2900	7810	2920	3540	8820	3400	4180	6	28	510		
	204	4300	2470	4150	2940	150	150	3950	790	780	5980	1860	2050	6990	2340	2690	8000	2830	3330	6	28	530		
RWPM 1400/360/..	301	2320	1420	2560	3420	1220	1430	4280	1620	1970	5990	2420	3040	6840	2820	3580	7700	3220	4120	10	25	490		
	302	3320	2040	3670	2310	440	430	3170	910	970	4880	1730	2040	5730	2140	2580	6590	2540	3120	10	25	510		
	303	4060	2490	4490				2350	230	230	4060	1200	1300	4910	1620	1840	5770	2030	2380	10	25	560		
	304	5060	3110	5600							2950	310	300	3800	840	840	4660	1300	1380	10	25	630		
RWPM 1400/420/..	302	3320	2040	3670	4670	1630	1910	5860	2200	2660	8240	3310	4160	9430	3870	4900	10620	4430	5650	7	35	590		
	303	4060	2490	4490	3850	1100	1170	5040	1680	1920	7420	2810	3420	8610	3370	4160	9800	3920	4910	8	35	640		
	304	5060	3110	5600	2740	180	170	3930	920	920	6310	2110	2420	7500	2680	3160	8690	3240	3910	8	35	710		
	313	6370	3920	7050							4860	1100	1110	6050	1730	1850	7240	2310	2600	9	35	730		
RWPM 1400/500/..	302	3320	2040	3670	7050	2760	3410	8590	3470	4370	11650	4910	6300	13180	5620	7260				5,5	46	730		
	303	4060	2490	4490	6230	2250	2670	7770	2970	3630	10830	4400	5560	12360	5120	6520	13900	5840	7480	6	46	780		
	304	5060	3110	5600	5120	1540	1670	6660	2280	2630	9720	3720	4560	11250	4440	5520	12790	5160	6480	6	46	850		
	313	6370	3920	7050	3670	360	360	5210	1290	1320	8270	2810	3250	9800	3540	4210	11340	4260	5170	7	46	870		
	313	7270	4470	8040				4220	420	420	7280	2160	2350	8810	2900	3310	10350	3640	4270	7	46	930		
RCPM 2500/420/..	302	4310	2520	4320	6450	2140	2450	7980	2870	3410	11060	4310	5340	12600	5030	6310	14140	5750	7270	10	47	750		
	303	5270	3080	5280	5490	1430	1490	7020	2200	2450	10100	3670	4380	11640	4390	5350	13180	5110	6310	10	47	800		
	304	6570	3840	6590	4180	180	190	5710	1150	1150	8790	2770	3080	10330	3500	4050	11870	4240	5010	10	47	870		
	313	8290	4840	8300	6660	2280	2630	9720	3720	4560	11250	4440	5520	12790	5160	6480	3290	4030	5170	10	47	890		
	313	9450	5520	9470	6370	420	410	6380	500	500	10340	2840	2980	12320	3820	4230	10160	2330	2110	10	47	950		
RCPM 2500/500/..	303	5270	3080	5280	8590	2950	3430	10570	3890	4680	14530	5750	7160	16510	6680	8410	18500	7600	9650	8	60	940		
	304	6570	3840	6590	7280	2020	2130	9260	2990	3380	13220	4880	5860	15200	5800	7110	17190	6730	8350	8	60	1010		
	313	8290	4840	8300	5570	420	410	7550	1660	1660	11510	3690	4140	13490	4640	5390	15480	5590	6630	8	60	1030		
	313	9450	5520	9470	6370	420	410	6380	500	500	10340	2840	2980	12320	3820	4230	14310	4770	5470	9	60	1090		
	324	10890	6360	10910	7000	880	890	7910	920	920	12620	3620	3870	14970	4770	5350	17320	5900	6830	8	60	1130		
RCPM 2500/520/..	304	6570	3840	6590	9880	3290	3770	12230	4410	5240	16940	6620	8190	19290	7720	9670	21640	8820	11150	7	71	1110		
	313	8290	4840	8300	8170	2010	2050	10520	3210	3520	15230	5470	6470	17580	6570	7950	19930	7670	9430	7	71	1130		
	313	9450	5520	9470	10300	2810	2960	13120	4210	4730	18770	6900	8270	21590	8220	10050	24420	9540	11820	6	86	1250		
	313	12460	7280	12490	7000	8860	1520	11680	3150	3290	17330	5910	6830	20150	7260	8610	22980	8580	10380	6	86	1350		
	325	13770	8040	13790				10100	1720	1720	15750	4790	5260	18570	6160	7040	21400	7510	8810	7	86	1400		
RCPM 2500/600/..	303	5270	3080	5280	14490	5730	7140	17310	7050	8910	22960	9690	12450							5	86	1160		
	304	6570	3840	6590	13180	4860	5840	16000	6180	7610	21650	8820	11150	24470	10150	12930				5,5	86	1230		
	313	8290	4840	8300	11470	3670	4120	14290	5020	5890	19940	7680	9430	22760	9000	11210	25590	10320	12980	6	86	1250		
	313	9450	5520	9470	10300	2810	2960	13120	4210	4730	18770	6900	8270	21590	8220	10050	24420	9540	11820	6	86	1310		
	324	10890	6360	10910	8860	1520	1520	11680	3150	3290	17330	5910	6830	20150	7260	8610	22980	8580	10380	6	86	1350		
RCPM 2500/620/..	313																							

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING

SERIES RWPM - RCPM

ACTUATORS TORQUE

CANTED

SPRING TO CLOSE

ACTUATOR TYPE	SPRING	SPRING TO CLOSE			AIR TO OPEN															
		3,5 bar (50 psi)			4 bar (58 psi)			5 bar (72 psi)			5,5 bar (80 psi)			6 bar (87 psi)						
		BREAK (90°) Nm	RUN (35°) Nm	END (0°) Nm	BREAK (0°) Nm	RUN (90°) Nm	END (90°) Nm													
RCPM 4500/500/..	403	6900	4050	7000	11070	3820	4440	13650	5050	6060	18820	7460	9300	21400	8670	10920	23980	9880	12540	10 77 1170
	404	8600	5050	8730	9340	2600	2740	11920	3870	4360	17090	6320	7600	19670	7530	9220	22250	8740	10840	10 77 1260
	413	10840	6370	11000	7070	510	500	9650	2130	2120	14820	4770	5360	17400	6000	6980	19980	7240	8600	10 77 1290
	405	12360	7270	12540				8110	600	600	13280	3650	3840	15860	4940	5460	18440	6170	7080	10 77 1380
	424	14240	8370	14450				11370	1960	1960	13950	3500	3580	16530	4820	5200	10 77 1420			
RCPM 4500/520/..	404	8600	5050	8730	12740	4260	4880	15810	5720	6800	21940	8590	10650	25010	10030	12580	28080	11470	14500	9 91 1370
	413	10840	6370	11000	10470	2590	2640	13540	4150	4560	19670	7090	8410	22740	8530	10340	25810	9960	12260	9 91 1390
	405	12360	7270	12540	8930	1120	1120	12000	2980	3040	18130	6030	6890	21200	7500	8820	24270	8940	10740	9 91 1480
	424	14240	8370	14450				10090	1160	1160	16220	4670	5010	19290	6180	6940	23630	7650	8860	10 91 1530
	415	16300	9580	16540							14130	2950	2950	17200	4660	4880	20270	6190	6800	10 91 1600
RCPM 4500/600/..	413	10840	6370	11000	14790	4750	5340	18470	6520	7660	25840	9980	12280	29520	11700	14590	33210	13430	16900	8 109 1520
	405	12360	7270	12540	13250	3640	3820	16930	5450	6140	24300	8960	10760	27980	10680	13070	31670	12410	15380	8 109 1610
	424	14240	8370	14450	11340	1940	1940	15020	4070	4260	22390	7660	8880	26070	9420	11190	29760	11150	13500	8 109 1660
	415	16300	9580	16540				12930	2200	2200	20300	6210	6820	23980	7980	9130	27670	9750	11440	8 109 1730
	425	18000	10580	18270				11200	500	500	18570	4920	5120	22250	6770	7430	25940	8550	9740	9 109 1770
RCPM 4500/620/..	405	12360	7270	12540	17960	5940	6780	22310	8030	9510	31030	12110	14980	35380	14150	17720	39740	16190	20450	7 129 1760
	424	14240	8370	14450	16050	4580	4900	20400	6710	7630	29120	10850	13100	33470	12890	15840	37830	14930	18570	7 129 1800
	415	16300	9580	16540	13960	2840	2840	18310	5220	5570	27030	9440	11040	31380	11500	13780	35740	13540	16510	7 129 1880
	425	18000	10580	18270	12230	1140	1140	16580	3850	3870	25300	8250	9340	29650	10330	12080	34010	12400	14810	7 129 1920
RCPM 4500/700/..	424	14240	8370	14450	21150	7070	8100	26230	9500	11290	36400	14260	17680	41490	16640	20870				5,5 162 2010
	415	16300	9580	16540	19060	5590	6040	24140	8060	9230	34310	12880	15620	39400	15260	18810	44480	17640	22000	6 162 2090
	425	18000	10580	18270	17330	4270	4340	22410	6850	7530	32580	11740	13920	37670	14120	17110	42750	16500	20300	6 162 2130
RCPM 4500/800/..	415	16300	9580	16540	33530	12510	15120	40680	15860	19610									4 211 2340	
	425	18000	10580	18270	31800	11360	13420	38950	14720	17910									4 211 2380	
RCPM 7500/500/..	404	11380	6290	9590	14330	3560	3630	17750	5300	5780	24580	8600	10070	28000	10220	12210	31420	11820	14360	10 104 1590
	413	14340	7930	12090	11830	670	670	15250	2820	2820	22080	6540	7110	25500	8210	9250	28920	9850	11400	10 104 1620
	405	16360	9040	13790				13550	800	800	20380	5000	5090	23800	6770	7230	27220	8470	9380	10 104 1710
	415	21570	11920	18190							18280	2600	2600	21700	4750	4740	25120	6630	6890	10 104 1750
	425	23820	13170	20080										19400	2020	2020	22820	4160	4170	10 104 1830
RCPM 7500/520/..	404	11380	6290	9590	18830	5840	6460	22890	7790	9000	31010	11630	14100	35070	13530	16650	39130	15430	19190	10 123 1710
	413	14340	7930	12090	16330	3490	3500	20390	5700	6040	28510	9650	11140	32570	11600	13690	36630	13510	16230	10 123 1730
	405	16360	9040	13790	14630	1480	1480	18690	4030	4020	26810	8270	9120	30870	10220	11670	34930	12170	14210	10 123 1820
	424	18850	10420	15890				16590	1540	1530	24710	6410	6630	28770	8470	9180	32830	10470	11720	10 123 1870
	415	21570	11920	18190							22410	3910	3910	26470	6370	6460	30530	8500	9000	10 123 1940
RCPM 7500/600/..	405	16360	9040	13790	20340	4980	5060	25220	7480	8120	34970	12190	14240	39840	14500	17300	44720	16790	20360	9 148 1970
	424	18850	10420	15890	18240	2580	2570	23120	5570	5630	32870	10490	11750	37740	12820	14810	42620	15160	17870	9 148 2010
	415	21570	11920	18190				20820	2910	2910	30570	8520	9030	35440	10950	12090	40320	13300	15150	10 148 2090
	425	23820	13170	20080				18930	660	660	28680	6720	6780	33550	9310	9840	38430	11740	12900	10 148 2130
RCPM 7500/620/..	424	18850	10420	15890	24470	6290	6480	30240	9210	10100	41770	14750	17340	47540	17480	20960	53300	20180	24580	8 175 2180
	415	21570	11920	18190	22170	3760	3760	27940	7160	7380	39470	12890	14620	45240	15650	18240	51000	18410	21860	8 175 2250
	425	23820	13170	20080	20280	1510	1510	26050	5130	5130	37580	11320	12370	43350	14110	15990	49110	16880	19610	8 175 2290
RCPM 7500/700/..	415	21570	11920	18190	28920	7680	8000	35650	11060	12220	49120	17510	20670	55850	20680	24900	62580	23830	29120	7 219 2490
	425	23820	13170	20080	27030	5750	5750	33760	9410	9970	47230	15970	18420	53960	19200	22650	60690	22370	26870	7 219 2530
RCPM 7500/800/..	425	23820	13170	20080	46180	15480	17770	55650	20010	23710	74580	28870	35590							5 287 2800
	425	23820	13170	20080	63840	23850	28850	75830	29460	36380										4 363 3160

RCPM/...

HIGHER TORQUES ON REQUEST ACCORDING TO CUSTOMER SPECIFICATION

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING ACTUATORS TORQUE CANTED

SERIES RWPM - RCPM

SPRING TO OPEN

ACTUATOR TYPE	SPRING	SPRING TO OPEN			AIR TO CLOSE															PRESS. MAX.	AIR DIS- PLACED	APPROX. WEIGHT			
		3,5 bar (50 psi)			4 bar (58 psi)			5 bar (72 psi)			5,5 bar (80 psi)			6 bar (87 psi)											
		END (90°) Nm	RUN (70°) Nm	BREAK (0°) Nm	END (0°) Nm	RUN (0°) Nm	BREAK (90°) Nm																		
RWPM 900/250/..	209	870	760	2280	170	170	670	520	400	890	1220	740	1330	1570	910	1550	1920	1070	1770	10	10	240			
	201	1190	1040	3140				360	360	1010	710	560	1230	1060	730	1450				10	10	260			
RWPM 900/300/..	209	870	760	2280	1250	760	1350	1760	990	1660	2770	1460	2300	3270	1690	2610	3770	1930	2930	10	14	300			
	201	1190	1040	3140	390	380	1030	900	650	1340	1910	1130	1980	2410	1370	2290	2910	1600	2610	10	14	320			
	202	1710	1490	4490				560	530	1460	1060	810	1770	1560	1060	2090				10	14	340			
	203	2090	1830	5490				60	60	1390	560	560	1710	2500	1580	2930	3230	1930	3380	10	14	390			
RWPM 900/360/..	209	870	760	2280	2810	1480	2320	3530	1810	2780	4980	2480	3690	5710	2810	4150	6440	3140	4600	8	20	350			
	201	1190	1040	3140	1950	1150	2000	2670	1490	2460	4120	2160	3370	4850	2490	3830	5580	2830	4280	8	20	370			
	202	1710	1490	4490	600	560	1480	1320	940	1940	2770	1640	2850	3500	1980	3310	4230	2310	3760	9	20	390			
	203	2090	1830	5490				320	320	1560	1770	1230	2470	2500	1580	2930	3230	1930	3380	9	20	440			
RWPM 900/420/..	201	1190	1040	3140	3780	2000	3150	4770	2460	3770	6750	3370	5020	7740	3820	5640	8730	4270	6260	6	28	440			
	202	1710	1490	4490	2430	1480	2630	3420	1940	3250	5400	2850	4500	6390	3310	5120	7380	3770	5740	6	28	460			
	203	2090	1830	5490	1430	1060	2250	2420	1550	2870	4400	2470	4120	5390	2930	4740	6380	3390	5360	7	28	510			
RWPM 1400/360/..	301	1610	1350	3690	2290	1290	2140	3150	1680	2680	4860	2470	3750	5710	2870	4290	6570	3260	4830	10	25	490			
	302	2300	1930	5290	690	600	1450	1550	1030	1990	3260	1840	3060	4110	2230	3600	4970	2630	4140	10	25	510			
	303	2820	2360	6460				380	370	1470	2090	1350	2540	2940	1760	3080	3800	2160	3620	10	25	560			
	304	3510	2940	8060	280	280	1720	1470	1130	2470	3850	2280	3970	5040	2840	4710	6230	3390	5460	9	35	710			
RWPM 1400/420/..	301	1610	1350	3690	4650	2380	3620	5840	2920	4370	8220	4010	5870	9410	4560	6610	10600	5100	7360	7	35	560			
	302	2300	1930	5290	3050	1740	2930	4240	2290	3680	6620	3390	5180	7810	3940	5920	9000	4480	6670	8	35	590			
	303	2820	2360	6460	1880	1250	2410	3070	1820	3160	5450	2920	4660	6640	3470	5400	7830	4020	6150	8	35	640			
	304	3510	2940	8060	280	280	1720	1470	1130	2470	3850	2280	3970	5040	2840	4710	6230	3390	5460	9	35	730			
RWPM 1400/500/..	302	2300	1930	5290	5430	2840	4430	6970	3550	5390	10030	4950	7320	11560	5650	8280	13100	6350	9240	6	46	730			
	303	2820	2360	6460	4260	2370	3910	5800	3080	4870	8860	4500	6800	10390	5200	7760	11930	5900	8720	6	46	780			
	304	3510	2940	8060	2660	1720	3220	4200	2440	4180	7260	3860	6110	8790	4570	7070	10330	5280	8030	7	46	850			
	313	4430	3710	10160	560	570	2300	2100	1550	3260	5160	3020	5190	6690	3730	6150	8230	4440	7110	8	46	870			
	305	5050	4230	11580				680	670	2640	3740	2420	4570	5270	3150	5530	6810	3870	6490	8	46	930			
RCPM 2500/420/..	302	2710	2340	6870	3900	2320	4050	5430	3030	5010	8510	4450	6940	10050	5160	7910	11590	5870	8870	10	47	750			
	303	3320	2870	8400	2370	1690	3440	3900	2430	4400	6980	3860	6330	8520	4570	7300	10060	5280	8260	10	47	800			
	304	4130	3570	10480	290	290	2630	1820	1530	3590	4900	3040	5520	6440	3770	6490	7980	4480	7450	10	47	870			
	313	5210	4500	13200				2180	1860	4440	3720	2650	5410	5260	3390	6370	10	47	890						
RCPM 2500/500/..	302	3320	2870	8400	5470	3170	5380	7450	4080	6630	11410	5910	9110	13390	6820	10360	15380	7740	11600	8	60	940			
	304	4130	3570	10480	3390	2320	4570	5370	3270	5820	9330	5110	8300	11310	6020	9550	13300	6940	10790	9	60	1010			
	313	5210	4500	13200	670	670	3490	2650	2110	4740	6610	4040	7220	8590	4970	8470	10580	5890	9710	9	60	1030			
	305	5940	5140	15060				790	790	4010	4750	3270	6490	6730	4220	7740	8720	5160	8980	9	60	1090			
RCPM 2500/520/..	303	3320	2870	8400	8070	4370	7020	10420	5450	8490	15130	7620	11440	17480	8700	12920	19830	9770	14400	7	71	1040			
	304	4130	3570	10480	5990	3560	6210	8340	4650	7680	13050	6820	10630	15400	7910	12110	17750	9000	13590	7	71	1110			
	313	5210	4500	13200	3270	2420	5130	5620	3570	6600	10330	5770	9550	12680	6860	11030	15030	7950	12510	8	71	1130			
	305	5940	5140	15060	1410	1410	4400	3760	2780	5870	8470	5040	8820	10820	6140	10300	13170	7230	11780	8	71	1190			
RCPM 2500/600/..	303	3320	2870	8400	11370	5890	9090	14190	7190	10860	19840	9780	14400	22660	11070	16180	23410	11580	17140	5,5	86	1160			
	304	4130	3570	10480	9290	5090	8280	12110	6390	10050	17760	9000	13590	20580	10290	15370	23520	11860	14290	6	86	1230			
	313	5210	4500	13200	6570	4020	7200	9390	5340	8970	15040	7950	12510	17860	9250	14290	20690	10560	16060	6	86	1250			
	305	5940	5140	15060	4710	3250	6470	7530	4600	8240	13180	7230	11780	16000	8540	13560	18830	9840	15330	7	86	1310			
RCPM 2500/620/..	303	3320	2870	8400	11370	5890	9090	14190	7190	10860	19840	9780	14400	22660	11070	16180	23410	11580	17140	5,5	86	1160			
	304	4130	3570	10480	12890	6750	10540	16230	8290	12630	22900	11350	16820	20180	10330	15740	23520	11860	17840	5	101	1360			
	313	5210	4500	13200	10170	5700	9460	13510	7240	11550	20180	10330	15740	23520	11860	17840				5,5	101	1380			
	305	5940	5140	15060	8310	4970	8730	11650	6530	10820	18320	9610	15010	21660	11150	17110	25000	12690	19200	6					

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING ACTUATORS TORQUE CANTED

SERIES RWPM - RCPM

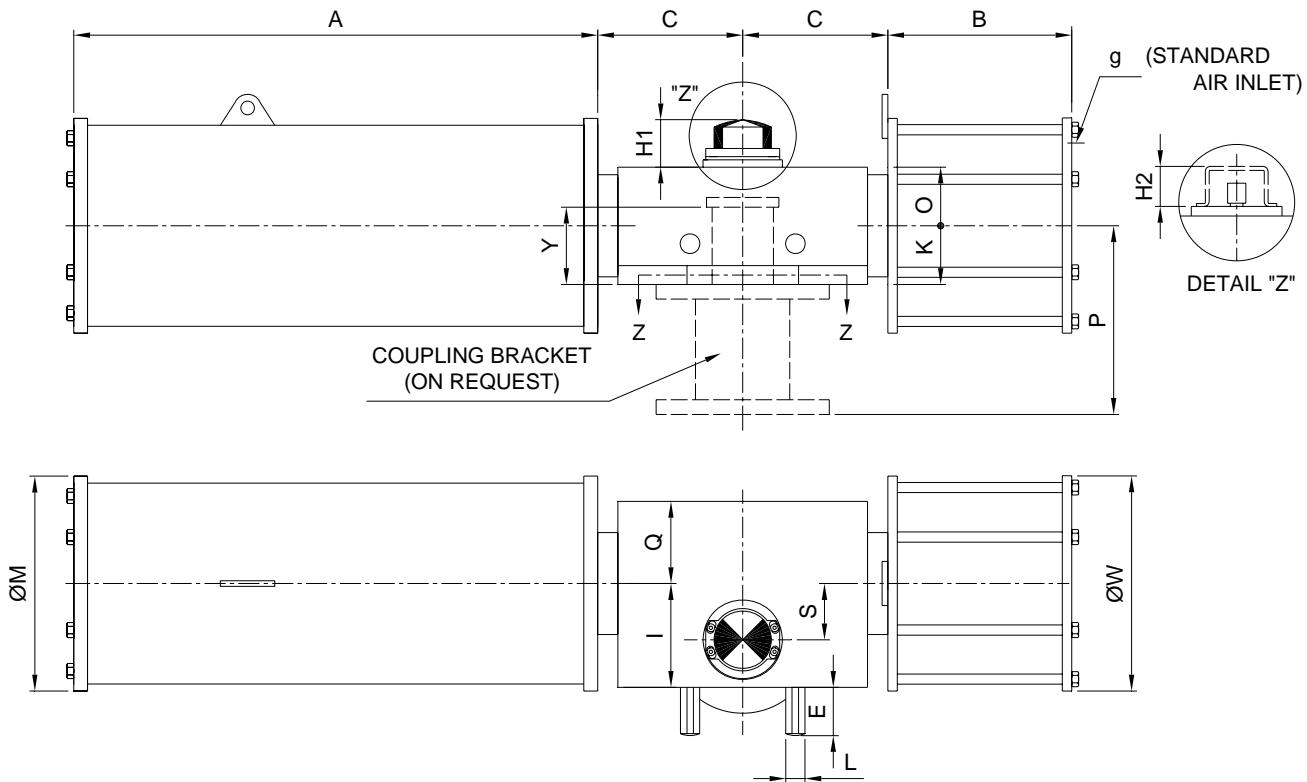
SPRING TO OPEN

ACTUATOR TYPE	SPRING	SPRING TO OPEN			AIR TO CLOSE															PRESS. MAX. bar	AIR DIS- PLACED lt	APPROX. WEIGHT kg		
		3,5 bar (50 psi)			4 bar (58 psi)			5 bar (72 psi)			5,5 bar (80 psi)			6 bar (87 psi)										
		END (90°) Nm	RUN (70°) Nm	BREAK (0°) Nm	END (0°) Nm	RUN (90°) Nm	BREAK (0°) Nm																	
RCPM 4500/500/..	403	4390	3780	10990	7080	4090	6950	9660	5280	8570	14830	7670	11810	17410	8860	13430	19990	10050	15050	10	77	1170		
	404	5480	4710	13700	4370	2990	5860	6950	4220	7480	12120	6620	10720	14700	7810	12340	17280	9000	13960	10	77	1260		
	413	6900	5940	17270	800	800	4440	3380	2700	6060	8550	5210	9300	11130	6430	10920	13710	7620	12540	10	77	1290		
	405	7870	6770	19690				960	960	5090	6130	4210	8330	8710	5450	9950	11290	6670	11570	10	77	1380		
	424	9070	7810	22690							3130	2820	7130	5710	4190	8750	8290	5450	10370	10	77	1420		
RCPM 4500/520/..	404	5480	4710	13700	7770	4600	8000	10840	6030	9920	16970	8860	13770	20040	10280	15700	23110	11690	17620	9	91	1370		
	413	6900	5940	17270	4200	3110	6580	7270	4600	8500	13400	7480	12350	16470	8890	14280	19540	10310	16200	9	91	1390		
	405	7870	6770	19690	1780	1780	5610	4850	3580	7530	10980	6530	11380	14050	7950	13310	17120	9370	15230	10	91	1480		
	424	9070	7810	22690				1850	1850	6330	7980	5300	10180	11050	6760	12110	14120	8210	14030	10	91	1530		
	415	10380	8930	25970							4700	3850	8870	7770	5400	10800	10840	6880	12720	10	91	1600		
RCPM 4500/600/..	413	6900	5940	17270	8520	5200	9280	12200	6920	11600	19570	10320	16220	23250	12030	18530	26940	13730	20840	8	109	1520		
	405	7870	6770	19690	6100	4200	8310	9780	5960	10630	17150	9390	15250	20830	11090	17560	24520	12790	19870	8	109	1610		
	424	9070	7810	22690	3100	2800	7110	6780	4720	9430	14150	8220	14050	17830	9930	16360	21520	11630	18670	9	109	1660		
	415	10380	8930	25970				3500	3190	8120	10870	6890	12740	14550	8640	15050	18240	10360	17360	9	109	1730		
	425	11470	9870	28680				790	790	7030	8160	5760	11650	11840	7540	13960	15530	9280	16270	9	109	1770		
RCPM 4500/620/..	405	7870	6770	19690	10810	6440	11270	15160	8470	14000	23880	12490	19470	28230	14500	22210	32590	16520	24940	7	129	1760		
	424	9070	7810	22690	7810	5220	10070	12160	7290	12800	20880	11330	18270	25230	13340	21010	29590	15360	23740	7	129	1800		
	415	10380	8930	25970	4530	3760	8760	8880	5950	11490	17600	10060	16960	21950	12070	19700	26310	14080	22430	8	129	1880		
	425	11470	9870	28680	1820	1820	6760	6170	4770	10400	14890	8980	15870	19240	11020	18610	23600	13040	21340	8	129	1920		
	405	7870	6770	19690	15910	8810	14470	20990	11160	17660	31160	15860	24050	36250	18190	27240	41330	20510	30430	6	162	1970		
RCPM 4500/700/..	424	9070	7810	22690	12910	7640	13270	17990	10000	16460	28160	14700	22850	33250	17040	26040	38330	19390	29230	6	162	2010		
	415	10380	8930	25970	9630	6300	11960	14710	8720	15150	24880	13430	21540	29970	15770	24730	35050	18120	27920	6	162	2090		
	425	11470	9870	28680	6920	5140	10870	12000	7610	14060	22170	12380	20450	27260	14720	23640	32340	17070	26830	6	162	2130		
	424	9070	7810	22690	27380	14330	22350	34530	17640	26840										4	211	2270		
	415	10380	8930	25970	24100	13060	21040	31250	16370	25530	45550	22960	34510							5	211	2340		
RCPM 7500/500/..	404	6020	5510	18130	5790	4270	8990	9210	5940	11140	16040	9160	15430	19460	10740	17570	22880	12320	19720	10	104	1590		
	413	7590	6940	22850	1070	1070	7420	4490	3910	9570	11320	7350	13860	14740	8970	16000	18160	10590	18150	10	104	1620		
	405	8650	7920	26060				1280	1270	8510	8110	6040	12800	11530	7730	14940	14950	9350	17090	10	104	1710		
	424	9970	9120	30030							4140	4070	11480	7560	6040	13620	10980	7770	15770	10	104	1750		
	415	11410	10440	34370							3220	3220	12180	6640	5820	14330	10420	15420	13130	10	104	1830		
RCPM 7500/520/..	404	6020	5510	18130	10290	6450	11820	14350	8380	14360	22470	12130	19460	26530	14000	22010	30590	15880	24550	10	123	1710		
	413	7590	6940	22850	5570	4500	10250	9630	6540	12790	17750	10400	17890	21810	12280	20440	25870	14150	22980	10	123	1730		
	405	8650	7920	26060	2360	2350	9190	6420	5160	11730	14540	9150	16830	18600	11080	19380	22660	12980	21920	10	123	1820		
	424	9970	9120	30030				2450	2450	10410	10570	7560	15510	14630	9540	18060	18690	11470	20600	10	123	1870		
	415	11410	10440	34370							6230	5590	14070	10290	7760	16620	14350	9770	19160	12310	10	123	1940	
RCPM 7500/600/..	404	6020	5510	18130	16000	9140	15400	20880	11390	18460	30630	15890	24580	35500	18150	27640	40380	20390	30700	9	148	1850		
	413	7590	6940	22850	11280	7330	13830	16160	9640	16890	25910	14170	23010	30780	16420	26070	35660	18680	29130	9	148	1880		
	405	8650	7920	26060	8070	6020	12770	12950	8400	15830	22700	13000	21950	27570	15250	25010	32450	17500	28070	10	148	1970		
	424	9970	9120	30030	4100	4050	11450	8980	6780	14510	18730	11490	20630	23600	13800	23690	28480	16060	26750	10	148	2010		
	415	11410	10440	34370							4640	4580	13070	14390	9790	19190	19260	12120	22250	24140	14430	25310	10	148
RCPM 7500/620/..	424	9970	9120	30030	10330	7450	15360	16100	10240	18980	27630	15660	26220	33400	18330	29840	39160	20990	33460	9	175	2180		
	415	11410	10440	34370	5990	5460	13920	11760	8490	17540	23290	14030	24780	29060	16740	28400	34820	19400	32020	9	175	2250		
	425	12610	11530	37960	2400	2410	12720	8170	6910	16340	19700	12640	23580	25470	15370	27200	31230	18090	30820	9	175	2290		
	424	9970	9120	30030	17080	10710	19600	23810	13900	23820	37280	20120	32270	44010	23230	36500	50740	26330	40720	7	219	2410		
	415	11410	10440	34370	12740	8980	18160	19470	12220	22380	32940	18530												

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING

TYPE RJPM - RWPM



ACTUATOR DIMENSIONS (mm)

	A	B	C	E	H1	H2	I	K	L	O	Q	S	Y	g
RWPM 900/...	940	360	240	60	55	45	195	120	36	100	145	85	100	1/2 NPT
RJPM 900/...														
RWPM 1400/...	1350	400	285	70	55	45	230	125	46	110	165	100	120	1/2 NPT
RJPM 1400/...														

DRAWING ONLY FOR SPRING TO CLOSE, FOR SPRING TO OPEN DIMENSIONS ARE SYMMETRICAL IN RESPECT TO THE AXIS VALVES

FLANGE DIMENSIONS (mm)

	D	n° x F	G	X	r	t	ISO	ON REQUEST
RWPM 900/...	300	4 x M 20	165	60	34,4	18	F 16	MIN. F 14 MAX. F 25 Xmin 45 Xmax 65
RJPM 900/...								
RWPM 1400/...	350	8 x M 16	254	80	45,4	22	F 25	MIN. F 16 MAX. F 30 Xmin 65 Xmax 90
RJPM 1400/...								

SPRING CARTRIDGE DIAMETER (mm)

RWPM 900/.../..	209	201	202	203	204	-	-	-
RJPM 900/.../..								
RWPM 1400/.../..	-	301	302	303	304	305	313	324
RJPM 1400/.../..								
DIMENSION "M"	280	345	395	465	510	575	465	510

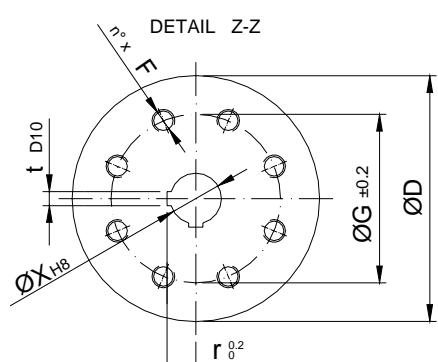
CYLINDER DIAMETER (mm)

TYPE OF CYLINDER	250	300	360	420	500	520
DIMENSION "W"	340	395	465	540	590	640

"H1" - STANDARD INDEX

"H2" - MOUNTING KIT ACCORDING TO VDI-VDE 3845 (ON REQUEST)

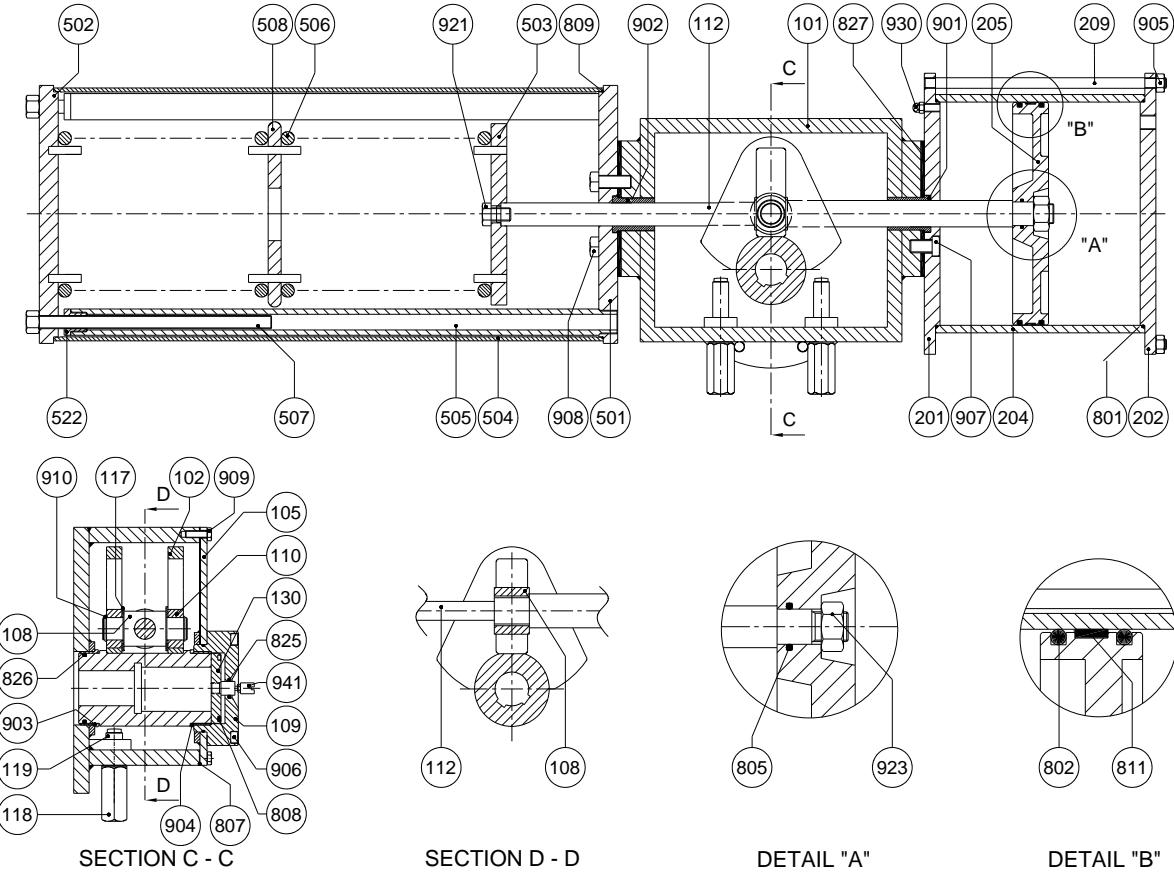
"P" - BRACKET ACCORDING TO CUSTOMER REQUIREMENT (ON REQUEST)



PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING

TYPE RJPM - RWPM



POS.	DESCRIPTION	MATERIAL	POS.	DESCRIPTION	MATERIAL	
101	HOUSING	S 275 JR	EN 10025	522	SAFETY NUT	CuAlFe3 EN 1982
102	LINK	S 275 JR	EN 10025	• 801	O-RING	N.B.R.
105	COVER	S 275 JR	EN 10025	• 802	O-RING	N.B.R.
108	LINK JOINT	C 40	EN 10083/2	• 805	O-RING	N.B.R.
109	COVER	S 275 JR	EN 10025	• 807	COVER GASKET	N.B.R.
110	SLIDING RING	BzAl	EN 1982	• 808	O-RING	N.B.R.
112	CHROM. SHAFT	42CrMo4	EN 10083/1	• 809	O-RING	N.B.R.
117	WASHER	CW 614 N	EN 12164	• 811	PISTON DRIVE	PTFE+GRAPHITE
118	CAP	S 275 JR	EN 10025	• 825	O-RING	N.B.R.
119	STOP SCREW	8.8	EN 898/1	• 826	O-RING	N.B.R.
130	LINK CAP	S 275 JR	EN 10025	• 827	GASKET	N.B.R.
201	HEAD	P 355 NH	EN 10028/3	901	BUSHING	STEEL/BRONZE/TEFLON
202	HEAD	P 355 NH	EN 10028/3	902	BUSHING	STEEL/BRONZE/TEFLON
204	CYLINDER (int. chr. plated)	E 355	EN 10297/1	903	BUSHING	STEEL/BRONZE/TEFLON
205	PISTON (till cylinder Ø 420)	SgAlCu3	EN 1706	904	BUSHING	STEEL/BRONZE/TEFLON
205	PISTON (over cylinder Ø 420)	S 275 JR	EN 10025	905	NUT	6 S EN 20898/2
209	STAY BOLT	42CrMo4	EN 10269	906	SCREW	8.8 EN 898/1
501	INTERNAL FLANGE	S 275 JR	EN 10025	907	SCREW	8.8 EN 898/1
502	EXTERNAL FLANGE	S 275 JR	EN 10025	908	SCREW	8.8 EN 898/1
503	SPRING DISC	S 275 JR	EN 10025	909	SCREW	8.8 EN 898/1
504	TUBE	S 235 JR	EN 10025	910	SEEGER	ALLOY STEEL
505	SAFETY TUBE	E 235 SR	EN 10305/1	921	SCREW	8.8 EN 898/1
506	SPRING	SPRING ST.	EN 10270	923	NUT	6 S EN 20898/2
507	SAFETY BOLT	42CrMo4	EN 10083/1	930	AIR SILENCER	BRASS
508	SPRING DISC	S 275 JR	EN 10025	941	NAMUR PIN	AISI 316

• STANDARD SPARE PARTS

servovalve

RJPM - RSPM - RWPM - RCPM Rev. 2/10

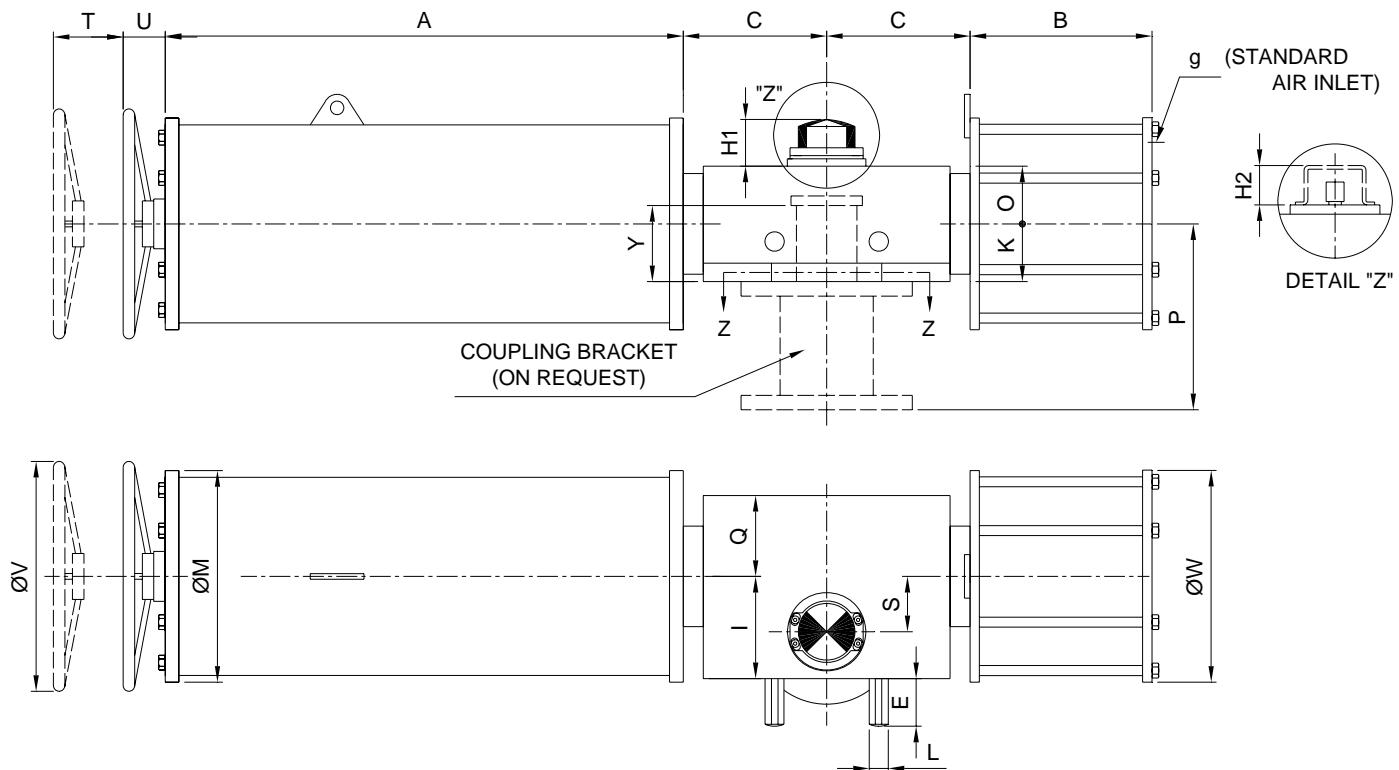
Page PS-13

Via Quasimodo 27 - I 20010 S. STEFANO TICINO (MI) - PHONE: 0039-029748461 - FAX: 0039-0297484646 - E-MAIL: servovalve@servovalve.it

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING WITH HANDWHEEL

TYPE RJPMV - RWPMV



ACTUATOR DIMENSIONS (mm)

	A	B	C	E	H1	H2	I	K	L	O	Q	S	T	U	V	Y	g
RWPMV 900/...	940	360	240	60	55	45	195	120	36	100	145	85	190	130	500	100	1/2 NPT
RJPMV 900/...																	
RWPMV 1400/...	1350	400	285	70	55	45	230	125	46	110	165	100	250	130	600	120	1/2 NPT
RJPMV 1400/...																	

DRAWING ONLY FOR SPRING TO CLOSE, FOR SPRING TO OPEN DIMENSIONS ARE SYMMETRICAL IN RESPECT TO THE AXIS VALVES

FLANGE DIMENSIONS (mm)

	D	n° x F	G	X	r	t	ISO	ON REQUEST
RWPMV 900/...	300	4 x M 20	165	60	34,4	18	F 16	MIN. F 14 MAX. F 25 Xmin 45 Xmax 65
RJPMV 900/...								
RWPMV 1400/...	350	8 x M 16	254	80	45,4	22	F 25	MIN. F 16 MAX. F 30 Xmin 65 Xmax 90
RJPMV 1400/...								

SPRING CARTRIDGE DIAMETER (mm)

RWPMV 900/...	209	201	202	203	204	-	-	-
RJPMV 900/...								
RWPMV 1400/...	-	301	302	303	304	305	313	324
RJPMV 1400/...								

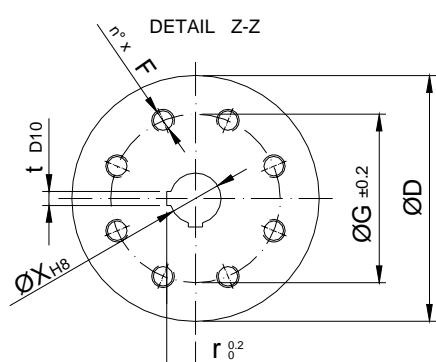
CYLINDER DIAMETER (mm)

TYPE OF CYLINDER	250	300	360	420	500	520
DIMENSION "W"	340	395	465	540	590	640

"H1" - STANDARD INDEX

"H2" - MOUNTING KIT ACCORDING TO VDI-VDE 3845 (ON REQUEST)

"P" - BRACKET ACCORDING TO CUSTOMER REQUIREMENT (ON REQUEST)

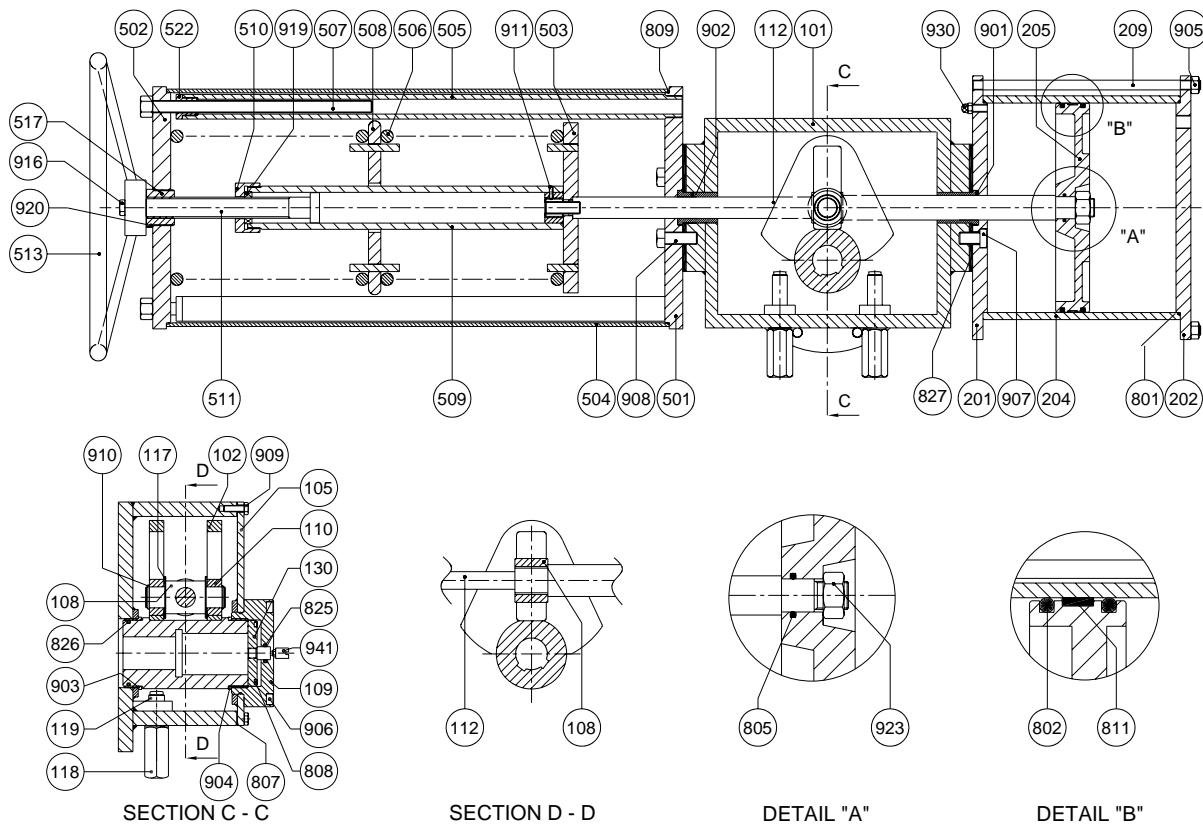


ON REQUEST ISO MALE SPIGOT

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING WITH HANDWHEEL

TYPE RJPMV - RWPMV



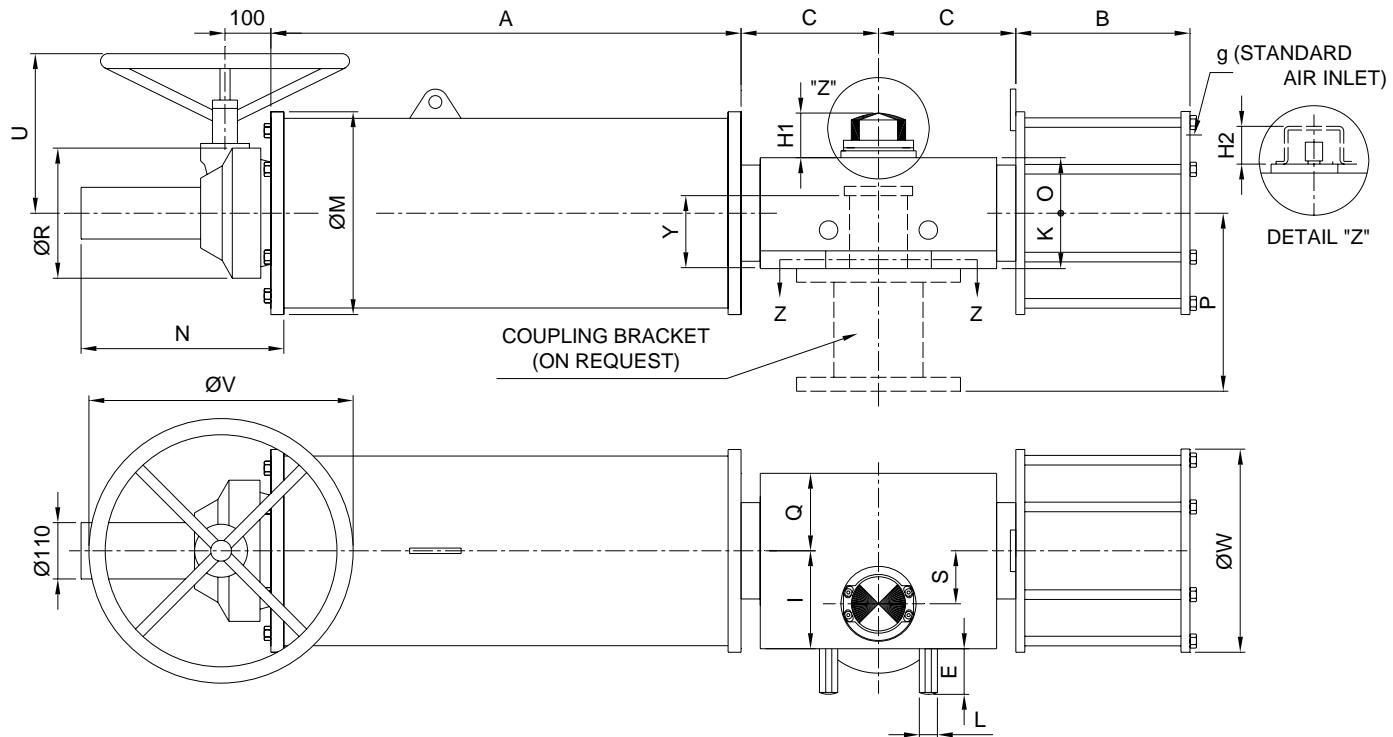
POS.	DESCRIPTION	MATERIAL	POS.	DESCRIPTION	MATERIAL	
101	HOUSING	S 275 JR	EN 10025	517	DRIVE NUT	BSZN5 EN 1982
102	LINK	S 275 JR	EN 10025	522	SAFETY NUT	CuAlFe3 EN 1982
105	COVER	S 275 JR	EN 10025	• 801	O-RING	N.B.R.
108	LINK JOINT	C 40	EN 10083/2	• 802	O-RING	N.B.R.
109	ICOVER	S 275 JR	EN 10025	• 805	O-RING	N.B.R.
110	SLIDING RING	BzAl	EN 1982	• 807	COVER GASKET	N.B.R.
112	CHROM. SHAFT	42 CrMo4	EN 10083/1	• 808	O-RING	N.B.R.
117	WASHER	CW 614 N	EN 12164	• 809	O-RING	N.B.R.
118	CAP	S 275 JR	EN 10025	• 811	PISTON DRIVE	PTFE+GRAPHITE
119	STOP SCREW	8.8	EN 898/1	• 825	O-RING	N.B.R.
130	LINK CAP	S 275 JR	EN 10025	• 826	O-RING	N.B.R.
201	HEAD	P 355 NH	EN 10028/3	• 827	GASKET	N.B.R.
202	HEAD	P 355 NH	EN 10028/3	901	BUSHING	STEEL/BRONZE/TEFLON
204	CYLINDER (int. chr. plated)	E 355	EN 10297/1	902	BUSHING	STEEL/BRONZE/TEFLON
205	PISTON (till cylinder Ø 420)	SgAlCu3	EN 1706	903	BUSHING	STEEL/BRONZE/TEFLON
205	PISTON (over cylinder Ø 420)	S 275 JR	EN 10025	904	BUSHING	STEEL/BRONZE/TEFLON
209	STAY BOLT	42CrMo4	EN 10269	905	NUT	6S EN 20898/2
501	INTERNAL FLANGE	S 275 JR	EN 10025	906	SCREW	8.8 EN 898/1
502	EXTERNAL FLANGE	S 275 JR	EN 10025	907	SCREW	8.8 EN 898/1
503	SPRING DISC	S 275 JR	EN 10025	908	SCREW	8.8 EN 898/1
504	TUBE	S 235 JR	EN 10025	909	SCREW	8.8 EN 898/1
505	SAFETY TUBE	E 235 SR	EN 10305/1	910	SEEGER	ALLOY STEEL
506	SPRING	SPRING ST.	EN 10270	911	DOWEL	8.8 EN 898/1
507	SAFETY BOLT	42CrMo4	EN 10083/1	916	SCREW	8.8 EN 898/1
508	SPRING DISC	S 275 JR	EN 10025	919	ROLLER BEARING	ALLOY STEEL
509	TUBE SLEEVE	E 235 SR	EN 10305/1	920	DOWEL	8.8 EN 898/1
510	RING NUT	C 40	EN 10083/2	923	NUT	6 S EN 20898/2
511	STEM	X20Cr13	EN 10088	930	AIR SILENCER	BRASS
513	HANDWHEEL	E 235 SR	EN 10305/1	941	NAMUR PIN	AISI 316

• STANDARD SPARE PARTS

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING WITH MANUAL GEAR

TYPE RJPMD - RWPMR



ACTUATOR DIMENSIONS (mm)

	A	B	C	E	H1	H2	I	K	L	N	O	Q	R	S	U	V	Y	g
RWPMR 1400/...	1350	400	240	70	55	45	230	120	46	480	110	165	270	100	440	800	120	½ NPT
RJPMR 1400/...																		

DRAWING ONLY FOR SPRING TO CLOSE, FOR SPRING TO OPEN DIMENSIONS ARE SYMMETRICAL IN RESPECT TO THE AXIS VALVES

FLANGE DIMENSIONS (mm)

	D	n° x F	G	X	r	t	ISO	ON REQUEST
RWPMR 1400/...	350	8 x M 16	254	80	45,4	22	F 25	MIN. F 16
RJPMR 1400/...								MAX. F 30

Xmin 65 Xmax 90

SPRING CARTRIDGE DIAMETER (mm)

RWPMR 1400/.../...	301	302	303	304	305	313	324
RJPMR 1400/.../...							
DIMENSION "M"	345	395	465	510	575	465	510

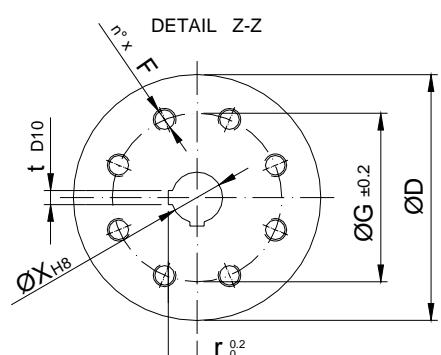
CYLINDER DIAMETER (mm)

TYPE OF CYLINDER	250	300	360	420	500	520
DIMENSION "W"	340	395	465	540	590	640

"H1" - STANDARD INDEX

"H2" - MOUNTING KIT ACCORDING TO VDI-VDE 3845 (ON REQUEST)

"P" - BRACKET ACCORDING TO CUSTOMER REQUIREMENT (ON REQUEST)

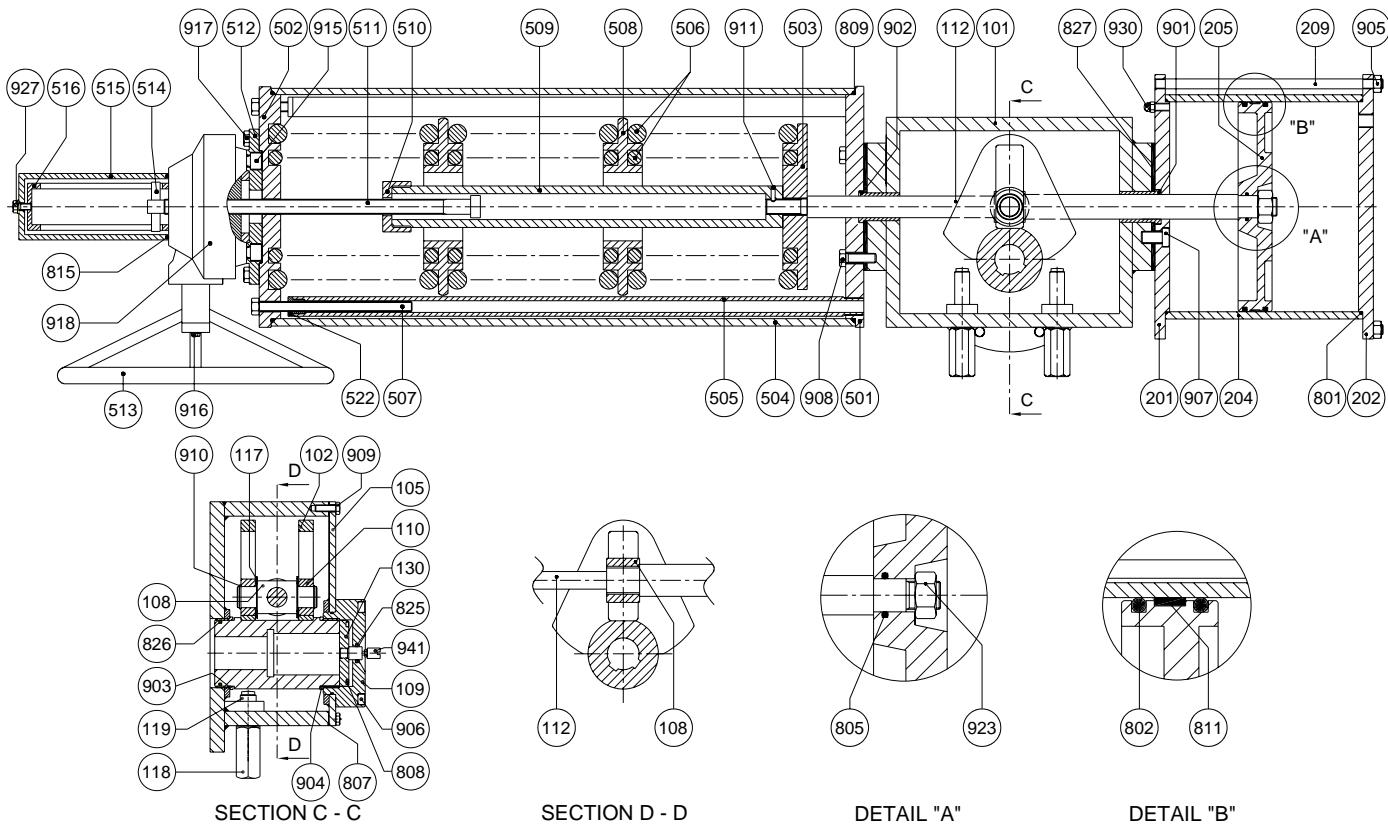


ON REQUEST ISO MALE SPIGOT

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING WITH MANUAL GEAR

TYPE RJPMPR - RWPMR



POS.	DESCRIPTION	MATERIAL	POS.	DESCRIPTION	MATERIAL		
101	HOUSING	S 275 JR	EN 10025	516	TUBE	E 235 SR	EN 10305/1
102	LINK	S 275 JR	EN 10025	522	SAFETY NUT	CuAlFe3	EN 1982
105	COVER	S 275 JR	EN 10025	• 801	O-RING	N.B.R.	
108	LINK JOINT	C 40	EN 10083/2	• 802	O-RING	N.B.R.	
109	COVER	S 275 JR	EN 10025	• 805	O-RING	N.B.R.	
110	SLIDING RING	BzAl	EN 1982	• 807	COVER GASKET	N.B.R.	
112	CHROM. SHAFT	42CrMo4	EN 10083/1	• 808	O-RING	N.B.R.	
117	WASHER	CW 614 N	EN 12164	• 809	O-RING	N.B.R.	
118	CAP	S 275 JR	EN 10025	• 811	PISTON DRIVE	PTFE+GRAPHITE	
119	STOP SCREW	8.8	EN 898/1	• 815	O-RING	N.B.R.	
130	LINK CAP	S 275 JR	EN 10025	• 825	O-RING	N.B.R.	
201	HEAD	P 355 NH	EN 10028/3	• 826	O-RING	N.B.R.	
202	HEAD	P 355 NH	EN 10028/3	• 827	GASKET	N.B.R.	
204	CYLINDER (int. chr. plated)	E 355	EN 10297/1	901	BUSHING	STEEL/BRONZE/TEFLON	
205	PISTON (till cylinder Ø 420)	SgAlCu3	EN 1706	902	BUSHING	STEEL/BRONZE/TEFLON	
205	PISTON (over cylinder Ø 420)	S 275 JR	EN 10025	903	BUSHING	STEEL/BRONZE/TEFLON	
209	STAY BOLT	42CrMo4	EN 10269	904	BUSHING	STEEL/BRONZE/TEFLON	
501	INTERNAL FLANGE	S 275 JR	EN 10025	905	NUT	6 S	EN 20898/2
502	EXTERNAL FLANGE	S 275 JR	EN 10025	906	SCREW	8.8	EN 898/1
503	SPRING DISC	S 275 JR	EN 10025	907	SCREW	8.8	EN 898/1
504	TUBE	S 235 JR	EN 10025	908	SCREW	8.8	EN 898/1
505	SAFETY TUBE	E 235 SR	EN 10305/1	909	SCREW	8.8	EN 898/1
506	SPRING	SPRING ST.	EN 10270	910	SEEGER	ALLOY STEEL	
507	SAFETY BOLT	42CrMo4	EN 10083/1	911	DOWEL	8.8	EN 898/1
508	SPRING DISC	S 275 JR	EN 10025	915	SCREW	8.8	EN 898/1
509	TUBE SLEEVE	E 235 SR	EN 10305/1	916	SCREW	8.8	EN 898/1
510	RING NUT	CW 612 N	EN 12164	917	SCREW	8.8	EN 898/1
511	STEM	X20Cr13	EN 10088	918	REDUCTOR	CAST IRON	EN 1563
512	FLANGE	C 40	EN 10083/2	923	NUT	6 S	EN 20898/2
513	HANDWHEEL	E 235 SR	EN 10305/1	927	SCREW	8.8	EN 898/1
514	PIN	S 275 JR	EN 10025	930	AIR SILENCER	BRASS	
515	TUBE	E 235 SR	EN 10305/1	941	NAMUR PIN	AISI 316	

• STANDARD SPARE PARTS

servovalve

RJPM - RSPM - RWPM - RCPM Rev. 2/10

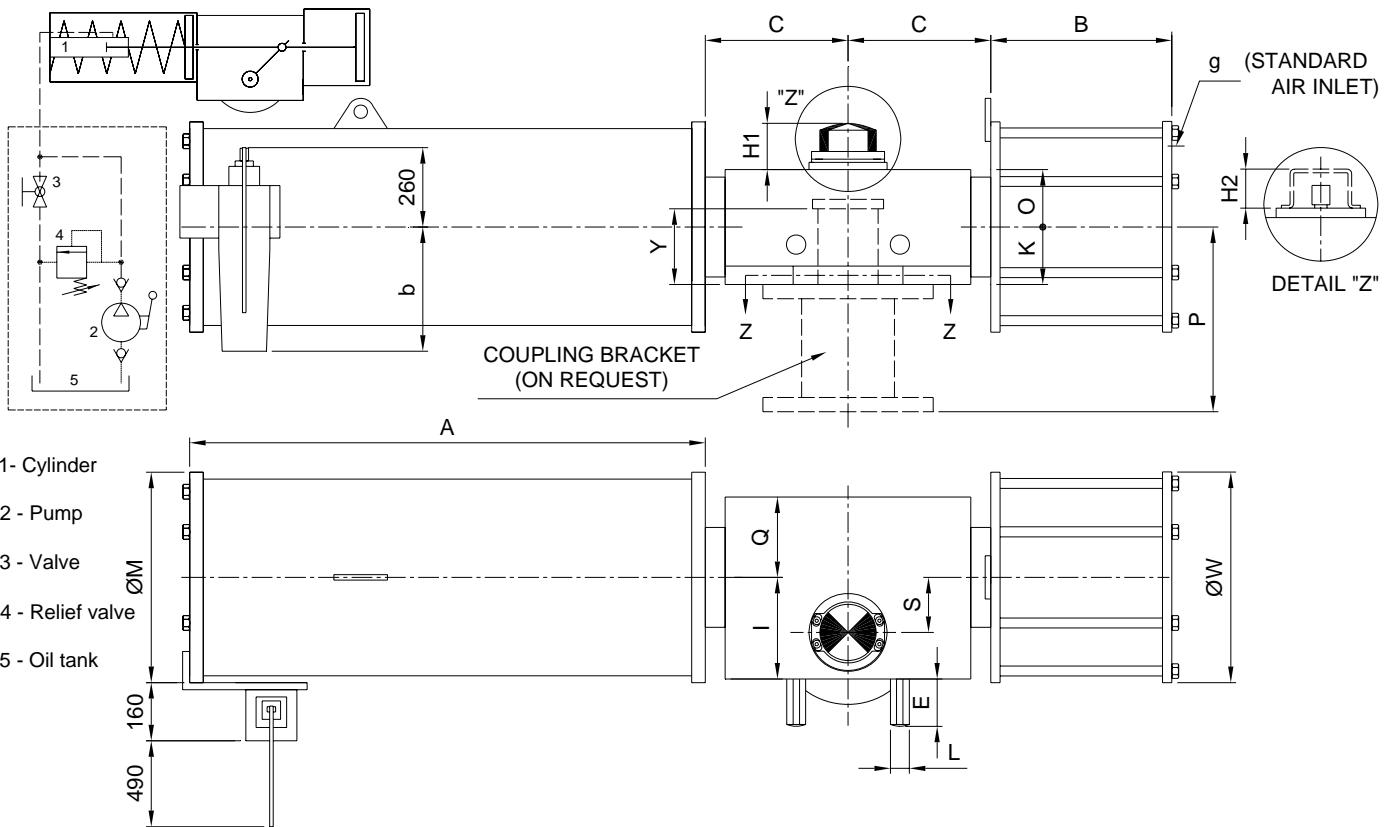
Page PS-17

Via Quasimodo 27 - I 20010 S. STEFANO TICINO (MI) - PHONE: 0039-029748461 - FAX: 0039-0297484646 - E-MAIL: servovalve@servovalve.it

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING WITH MANUAL HYDRAULIC PUMP

RJPMH - RWPMH



ACTUATOR DIMENSIONS (mm)

	A	B	C	E	H1	H2	I	K	L	O	Q	S	Y	g
RWPM 900/...	940	360	240	60	55	45	195	120	36	100	145	85	100	1/2 NPT
RJPM 900/...														
RWPM 1400/...	1350	400	285	70	55	45	230	125	46	110	165	100	120	1/2 NPT
RJPM 1400/...														

DRAWING ONLY FOR SPRING TO CLOSE, FOR SPRING TO OPEN DIMENSIONS ARE SYMMETRICAL IN RESPECT TO THE AXIS VALVES

FLANGE DIMENSIONS (mm)

	D	n° x F	G	X	r	t	ISO	ON REQUEST			
								MIN.	MAX.	Xmin	Xmax
RWPM 900/...	300	4 x M 20	165	60	34,4	18	F 16	F 14	F 25	45	65
RJPM 900/...											
RWPM 1400/...	350	8 x M 16	254	80	45,4	22	F 25	F 16	F 30	65	90
RJPM 1400/...											

SPRING CARTRIDGE DIAMETER (mm)

RWPM 900/.../..	209	201	202	203	204	-	-	-
RJPM 900/.../..								
RWPM 1400/.../..	-	301	302	303	304	305	313	324
RJPM 1400/.../..								

DIMENSION "M" 280 345 395 465 510 575 465 510

CYLINDER DIAMETER (mm)

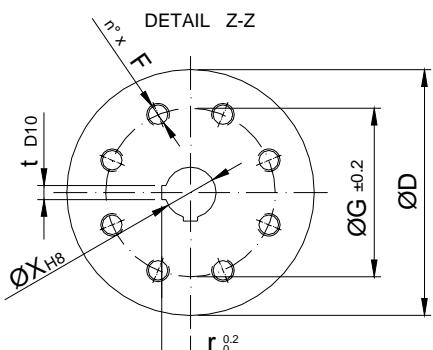
TYPE OF CYLINDER	250	300	360	420	500	520
DIMENSION "W"	340	395	465	540	590	640

QUOTE "b" - TO BE DEFINED

"H1" - STANDARD INDEX

"H2" - MOUNTING KIT ACCORDING TO VDI-VDE 3845 (ON REQUEST)

"P" - BRACKET ACCORDING TO CUSTOMER REQUIREMENT (ON REQUEST)

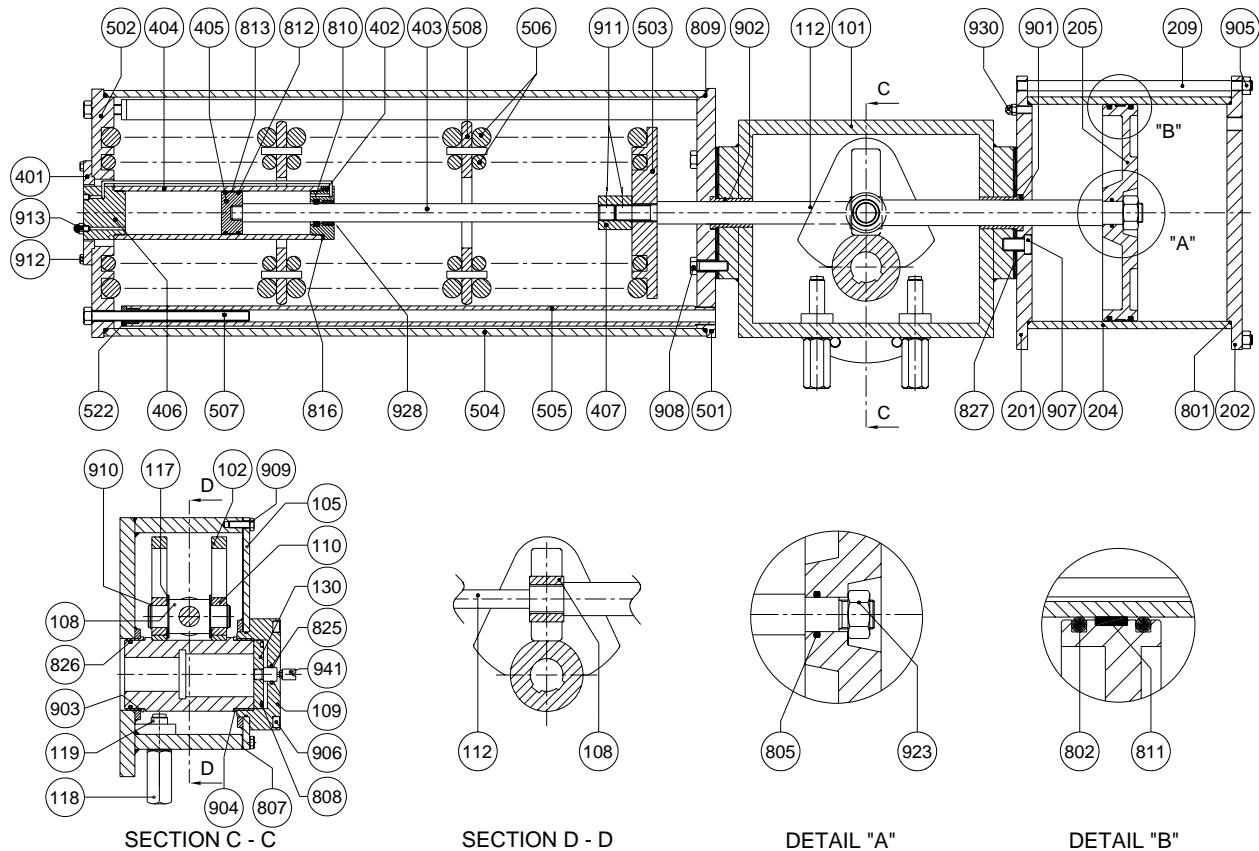


ON REQUEST ISO MALE SPIGOT

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING WITH MANUAL HYDRAULIC PUMP

TYPE RJPMH - RWPMH



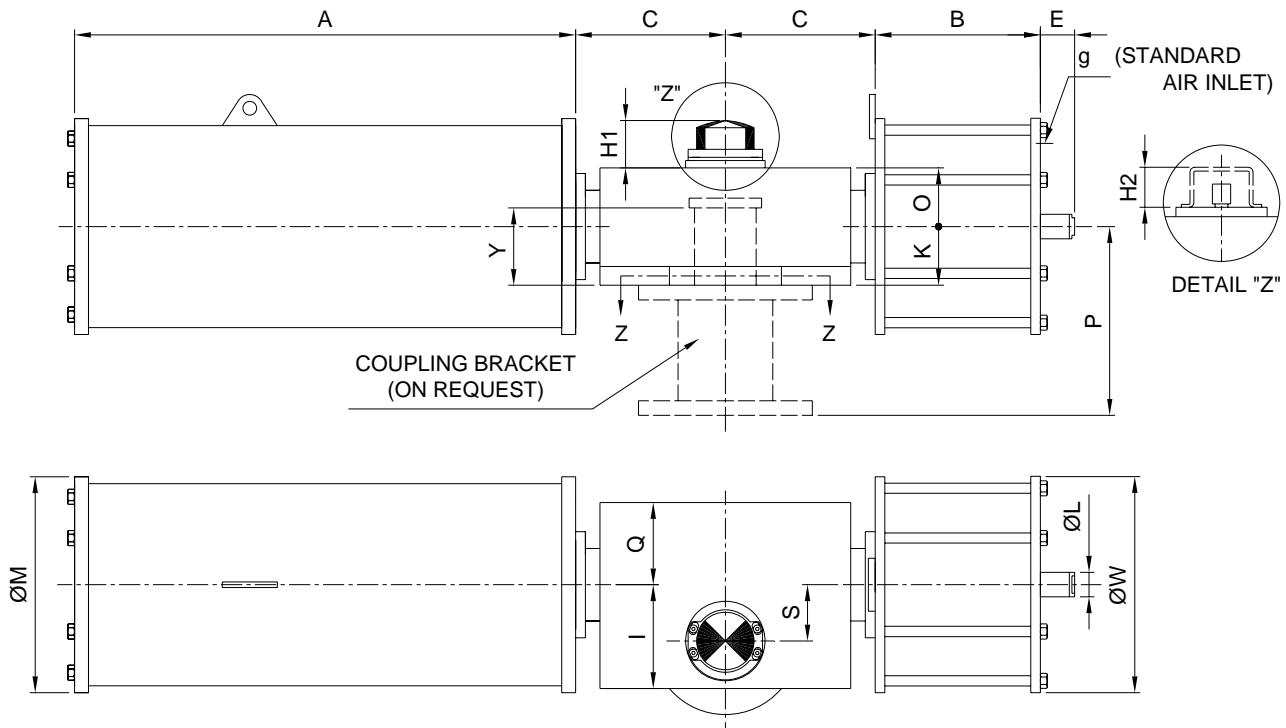
POS.	DESCRIPTION	MATERIAL	POS.	DESCRIPTION	MATERIAL	
101	HOUSING	S 275 JR	EN 10025	522	SAFETY NUT	CuAlFe3
102	LINK	S 275 JR	EN 10025	• 801	O-RING	N.B.R.
105	COVER	S 275 JR	EN 10025	• 802	O-RING	N.B.R.
108	LINK JOINT	C 40	EN 10083/2	• 805	O-RING	N.B.R.
109	COVER	S 275 JR	EN 10025	• 807	COVER GASKET	N.B.R.
110	SLIDING RING	BzAl	EN 1982	• 808	O-RING	N.B.R.
112	CHROM. SHAFT	42CrMo4	EN 10083/1	• 809	O-RING	N.B.R.
117	WASHER	CW 614 N	EN 12164	• 810	LIP GASKET	POLYURETHANE
118	CAP	S 275 JR	EN 10025	• 811	PISTON DRIVE	PTFE+GRAPHITE
119	STOP SCREW	8.8	EN 898/1	• 812	PISTON GASKET	POLYURETHANE
130	LINK CAP	S 275 JR	EN 10025	• 813	PISTON DRIVE	PTFE+GRAPHITE
201	HEAD	P 355 NH	EN 10028/3	• 816	O-RING	N.B.R.
202	HEAD	P 355 NH	EN 10028/3	• 825	O-RING	N.B.R.
204	CYLINDER (int. chr. plated)	E 355	EN 10297/1	• 826	O-RING	N.B.R.
205	PISTON (till cylinder Ø 420)	SgAlCu3	EN 1706	• 827	GASKET	N.B.R.
205	PISTON (over cylinder Ø 420)	S 275 JR	EN 10025	901	BUSHING	STEEL/BRONZE/TEFLON
209	STAY BOLT	42CrMo4	EN 10269	902	BUSHING	STEEL/BRONZE/TEFLON
401	FLANGE	S 275 JR	EN 10025	903	BUSHING	STEEL/BRONZE/TEFLON
402	FLANGE	S 275 JR	EN 10025	904	BUSHING	STEEL/BRONZE/TEFLON
403	CHROM. SHAFT	C 40	EN 10083/2	905	NUT	6 S EN 20898/2
404	CYLINDER (int. chr. plated)	E 355	EN 10297/1	906	SCREW	8.8 EN 898/1
405	PISTON	S 275 JR	EN 10025	907	SCREW	8.8 EN 898/1
406	HEAD	S 275 JR	EN 10025	908	SCREW	8.8 EN 898/1
407	HUB	S 275 JR	EN 10025	909	SCREW	8.8 EN 898/1
501	INTERNAL FLANGE	S 275 JR	EN 10025	910	SEEGER	ALLOY STEEL
502	EXTERNAL FLANGE	S 275 JR	EN 10025	911	DOWEL	8.8 EN 898/1
503	SPRING DISC	S 275 JR	EN 10025	912	SCREW	8.8 EN 898/1
504	TUBE	S 235 JR	EN 10025	923	NUT	6 S EN 20898/2
505	SAFETY TUBE	E 235 SR	EN 10305/1	924	SCREW	8.8 EN 898/1
506	SPRING	SPRING ST.	EN 10270	928	BUSHING	BSZN5 EN 1982
507	SAFETY BOLT	42CrMo4	EN 10083/1	930	AIR SILENCER	BRASS
508	SPRING DISC	S 275 JR	EN 10025	941	NAMUR PIN	AISI 316

- STANDARD SPARE PARTS

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING

TYPE RSPM - RCPM



ACTUATOR DIMENSIONS (mm)

	A	B	C	E	H1	H2	I	K	L	O	Q	S	Y	g
RSPM 2500/...	1400	490	355	75	55	45	240	170	60	130	180	130	150	1/2 NPT
RCPM 2500/...														
RSPM 4500/...	1810	610	465	110	55	45	295	155	70	155	255	170	170	1/2 NPT
RCPM 4500/...														
RSPM 7500/...	1950	740	610	130	55	45	385	235	80	185	325	225	220	3/4 NPT
RCPM 7500/...														

DRAWING ONLY FOR SPRING TO CLOSE, FOR SPRING TO OPEN DIMENSIONS ARE SYMMETRICAL IN RESPECT TO THE AXIS VALVES

FLANGE DIMENSIONS (mm)

	D	n° x F	G	X	r	t	ISO	ON REQUEST			
								MIN.	MAX.	Xmin	Xmax
RSPM 2500/...	415	8 x M 20	298	90	50,4	25	F 30				
RCPM 2500/...								F 25	F 35	65	100
RSPM 4500/...	475	8 x M 30	356	120	67,4	32	F 35				
RCPM 4500/...								F 30	F 40	90	130
RSPM 7500/...	560	8 x M 36	406	150	83,4	36	F 40				
RCPM 7500/...								F 35	F 48	145	160

SPRING CARTRIDGE DIAMETER (mm)

RSPM 2500/.../...	302	303	304	305	313	324	315	325	40X (1)
RCPM 2500/.../...									
RSPM 4500/.../...					404	405	413	424	415 425 40X (1)
RCPM 4500/.../...									
RSPM 7500/.../...					404	405	413	424	415 425 40X (1)
RCPM 7500/.../...									
DIMENSION "M"	395	465	510	575	465	510	575	575	(1)
									X (1) SPECIAL EXECUTION AND DIMENSIONS

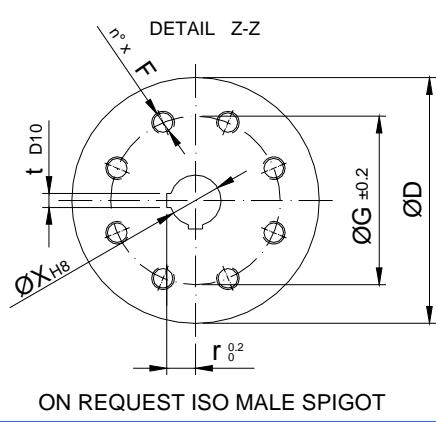
CYLINDER DIAMETER (mm)

TYPE OF CYLINDER	420	500	520	600	620	700	800	900
DIMENSION "W"	540	590	640	695	740	805	930	1050

"H1" - STANDARD INDEX

"H2" - MOUNTING KIT ACCORDING TO VDI-VDE 3845 (ON REQUEST)

"P" - BRACKET ACCORDING TO CUSTOMER REQUIREMENT (ON REQUEST)

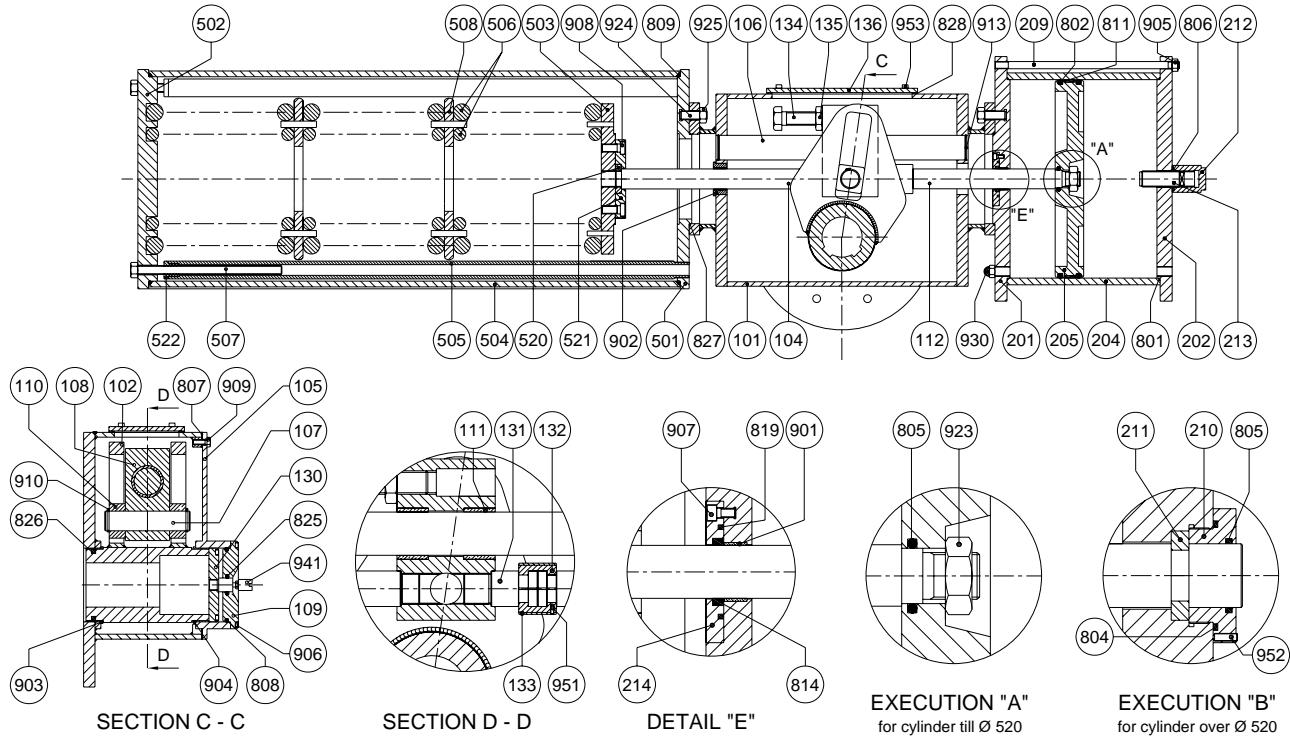


ON REQUEST ISO MALE SPIGOT

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING

TYPE RSPM - RCPM



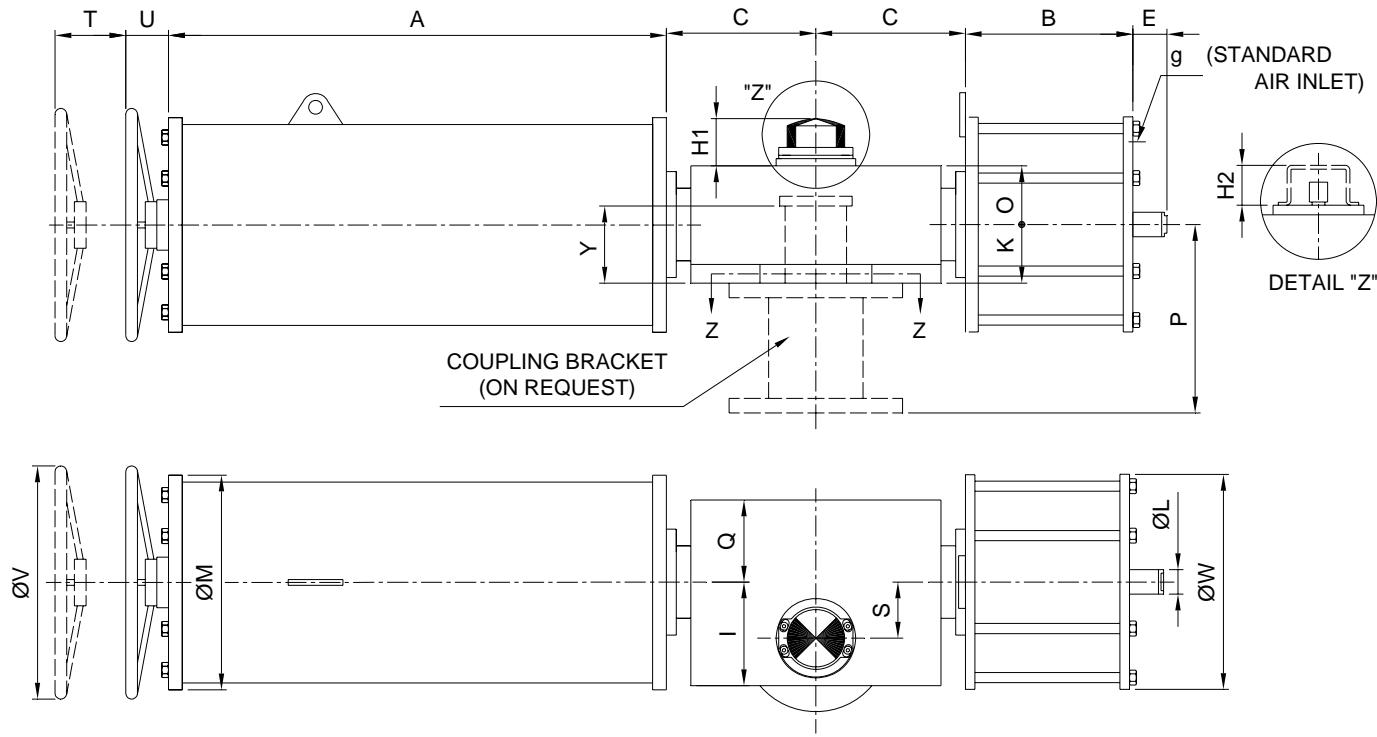
POS. DESCRIPTION	MATERIAL	POS. DESCRIPTION	MATERIAL		
101 HOUSING	S 275 JR	EN 10025	520 RING NUT	42CrMo4	EN 10083/1
102 LINK	S 275 JR	EN 10025	521 SPRING FLANGE	42CrMo4	EN 10083/1
104 CHROM. SHAFT	42 CrMo4	EN 10083/1	522 SAFETY NUT	CuAlFe3	EN 1982
105 COVER	S 275 JR	EN 10025	• 801 O-RING	N.B.R.	
106 CHROM. SHAFT	42CrMo4	EN 10083/1	• 802 O-RING	N.B.R.	
107 PIN	42CrMo4	EN 10083/1	• 804 O-RING	N.B.R.	
108 LINK JOINT	S 275 JR	EN 10025	• 805 O-RING	N.B.R.	
109 COVER	S 275 JR	EN 10025	• 806 O-RING	N.B.R.	
110 SLIDING RING	BzAl	EN 1982	• 807 COVER GASKET	N.B.R.	
111 BUSHING	STEEL/BRONZE/TEFLON		• 808 O-RING	N.B.R.	
112 CHROM. SHAFT	42CrMo4	EN 10083/1	809 O-RING	N.B.R.	
130 LINK CAP	S 275 JR	EN 10025	• 811 PISTON DRIVE	PTFE+GRAPHITE	
131 INTERMEDIATE SHAFT	42CrMo4	EN 10083/1	• 814 LIP GASKET	POLYURETHANE	
132 LINK	42CrMo4	EN 10083/1	• 819 O-RING	N.B.R.	
133 TUBE	E 235 SR	EN 10305/1	• 825 O-RING	N.B.R.	
134 STOP SCREW	8.8	EN 898/1	• 826 O-RING	N.B.R.	
135 BLOCK NUT	6 S	EN 20898/2	• 827 O-RING	N.B.R.	
136 COVER	S 275 JR	EN 10025	• 828 GASKET	N.B.R.	
201 HEAD	P 355 NH	EN 10028/3	901 BUSHING	STEEL/BRONZE/TEFLON	
202 HEAD	P 355 NH	EN 10028/3	902 BUSHING	STEEL/BRONZE/TEFLON	
204 CYLINDER (int. chr. plated)	E 335	EN 10297/1	903 BUSHING	STEEL/BRONZE/TEFLON	
205 PISTON (till cylinder Ø 420)	SgAlCu3	EN 1706	904 BUSHING	STEEL/BRONZE/TEFLON	
205 PISTON (over cylinder Ø 420)	S 275 JR	EN 10025	905 NUT	6 S	EN 20898/2
209 STAY BOLT	42 CrMo4	EN 10269	906 SCREW	8.8	EN 898/1
210 RING NUT	42CrMo4	EN 10083/1	907 SCREW	8.8	EN 898/1
211 HALF RING	42CrMo4	EN 10083/1	908 SCREW	8.8	EN 898/1
212 CAP	S 275 JR	EN 10025	909 SCREW	8.8	EN 898/1
213 STOP SCREW	C 40	EN 10083/2	910 SEEGER	ALLOY STEEL	
214 FLANGE	C 40	EN 10083/2	913 SEEGER	ALLOY STEEL	
501 INTERNAL FLANGE	S 275 JR	EN 10025	923 NUT	6 S	EN 20898/2
502 EXTERNAL FLANGE	S 275 JR	EN 10025	924 PIN	8.8	EN 898/1
503 SPRING DISC	S 275 JR	EN 10025	925 NUT	6 S	EN 20898/2
504 TUBE	S 235 JR	EN 10025	930 AIR SILENCER	BRASS	
505 SAFETY TUBE	E 235 SR	EN 10305/1	941 NAMUR PIN	AISI 316	
506 SPRING	SPRING ST.	EN 10270	951 DOWEL	8.8	EN 898/1
507 SAFETY BOLT	42CrMo4	EN 10083/1	952 DOWEL	8.8	EN 898/1
508 SPRING DISC	S 275 JR	EN 10025	953 SCREW	8.8	EN 898/1

• STANDARD SPARE PARTS

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING WITH HANDWHEEL

TYPE RSPMV - RCPMV



ACTUATOR DIMENSIONS (mm)

	A	B	C	E	H1	H2	I	K	L	O	Q	S	T	U	V	Y	g
RSPMV 2500/...	1400	490	355	75	55	45	240	170	60	130	180	130	300	150	800	150	
RCPMV 2500/...																1/2 NPT	

DRAWING ONLY FOR SPRING TO CLOSE, FOR SPRING TO OPEN DIMENSIONS ARE SYMMETRICAL IN RESPECT TO THE AXIS VALVES

FLANGE DIMENSIONS (mm)

	D	n° x F	G	X	r	t	ISO	ON REQUEST			
	MIN.	MAX.						MIN.	MAX.	Xmin	Xmax
RSPMV 2500/...	415	8 x M 20	298	90	50,4	25	F 30	F 25	F 35	65	100
RCPMV 2500/...											

SPRING CARTRIDGE DIAMETER (mm)

RSPMV 2500/.../..	301	302
RCPMV 2500/.../..		

DIMENSION "M"	345	395
---------------	-----	-----

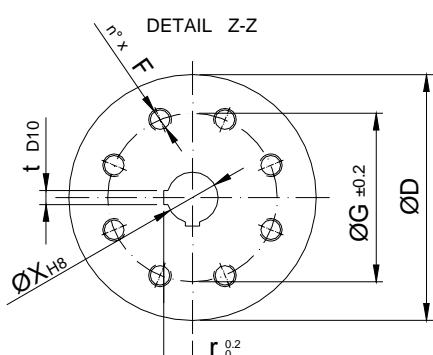
CYLINDER DIAMETER (mm)

TYPE OF CYLINDER	360	420
DIMENSION "W"	465	540

"H1" - STANDARD INDEX

"H2" - MOUNTING KIT ACCORDING TO VDI-VDE 3845 (ON REQUEST)

"P" - BRACKET ACCORDING TO CUSTOMER REQUIREMENT (ON REQUEST)

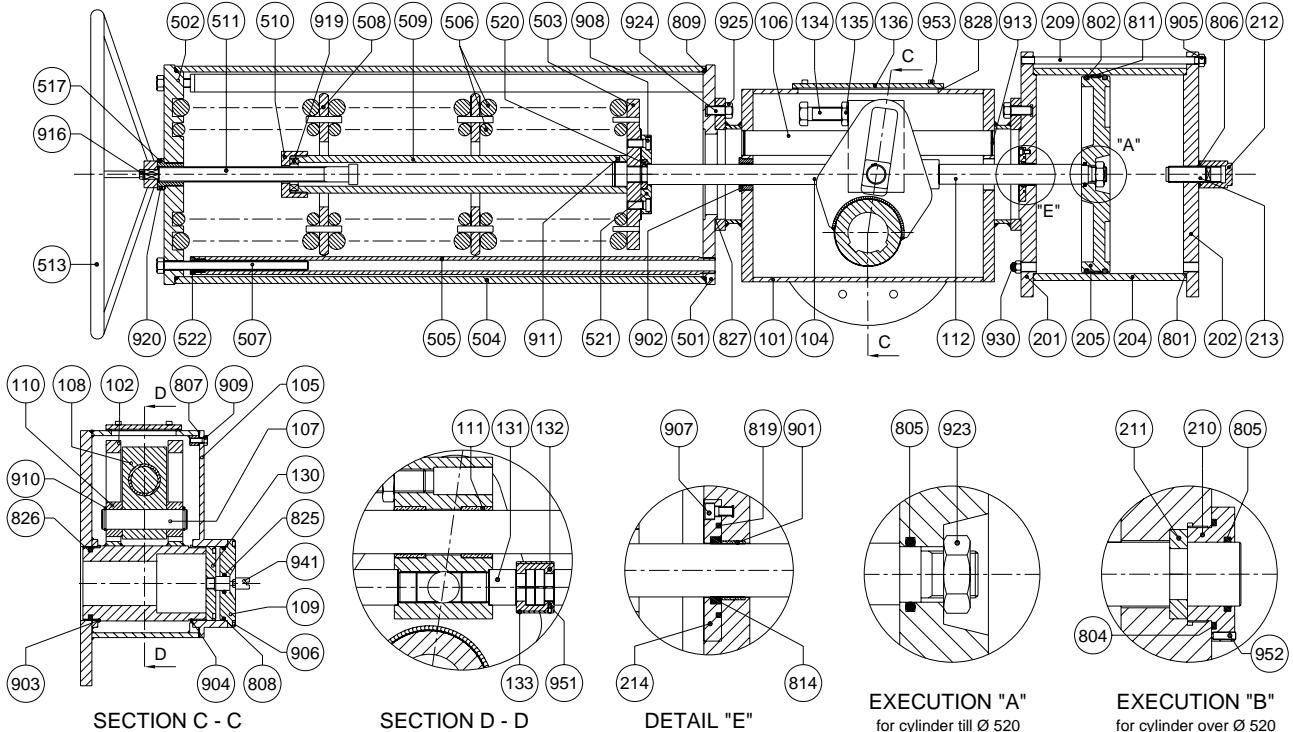


ON REQUEST ISO MALE SPIGOT

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING WITH HANDWHEEL

TYPE RSPMV - RCPMV



POS. DESCRIPTION

101	HOUSING
102	LINK
104	CHROM. SHAFT
105	COVER
106	CHROM. SHAFT
107	PIN
108	LINK JOINT
109	COVER
110	SLIDING RING
111	BUSHING
112	CHROM. SHAFT
130	LINK CAP
131	INTERMEDIATE SHAFT
132	LINK
133	TUBE
134	STOP SCREW
135	BLOCK NUT
136	COVER
201	HEAD
202	HEAD
204	CYLINDER (int. chr. plated)
205	PISTON (till cylinder Ø 420)
209	STAY BOLT
210	RING NUT
211	HALF RING
212	CAP
213	STOP SCREW
214	FLANGE
501	INTERNAL FLANGE
502	EXTERNAL FLANGE
503	SPRING DISC
504	TUBE
505	SAFETY TUBE
506	SPRING
507	SAFETY BOLT
508	SPRING DISC
509	TUBE SLEEVE
510	RING NUT
511	STEM
513	HANDWHEEL
517	DRIVE NUT

MATERIAL

S 275 JR	EN 10025
S 275 JR	EN 10025
42 CrMo4	EN 10083/1
S 275 JR	EN 10025
42CrMo4	EN 10083/1
42CrMo4	EN 10083/1
S 275 JR	EN 10025
8.8	EN 898/1
6 S	EN 20898/2
S 275 JR	EN 10025
P 355 NH	EN 10028/3
P 355 NH	EN 10028/3
E 335	EN 10297/1
SgAlCu3	EN 1706
S 275 JR	EN 10025
42 CrMo4	EN 10269
42CrMo4	EN 10083/1
42CrMo4	EN 10083/1
S 275 JR	EN 10025
C 40	EN 10083/2
C 40	EN 10083/2
S 275 JR	EN 10025
S 275 JR	EN 10025
S 275 JR	EN 10025
S 235 JR	EN 10025
E 235 SR	EN 10305/1
SPRING ST.	EN 10270
42CrMo4	EN 10083/1
S 275 JR	EN 10025
E 235 SR	EN 10305/1
C 40	EN 10083/2
X20Cr13	EN 10088
E 235 SR	EN 10305/1
BSZN5	EN 1982

POS. DESCRIPTION

520	RING NUT
521	SPRING FLANGE
522	SAFETY NUT
● 801	O-RING
● 802	O-RING
● 804	O-RING
● 805	O-RING
● 806	O-RING
● 807	COVER GASKET
● 808	O-RING
● 809	O-RING
● 811	PISTON DRIVE
● 814	LIP GASKET
● 819	O-RING
● 825	O-RING
● 826	O-RING
● 827	O-RING
● 828	O-RING
901	BUSHING
902	BUSHING
903	BUSHING
904	BUSHING
905	NUT
906	SCREW
907	SCREW
908	SCREW
909	SCREW
910	SEEGER
911	DOWEL
913	SEEGER
916	SCREW
919	ROLLER BEARING
920	DOWEL
923	NUT
924	PIN
925	NUT
930	AIR SILENCER
941	NAMUR PIN
951	DOWEL
952	DOWEL
953	SCREW

MATERIAL

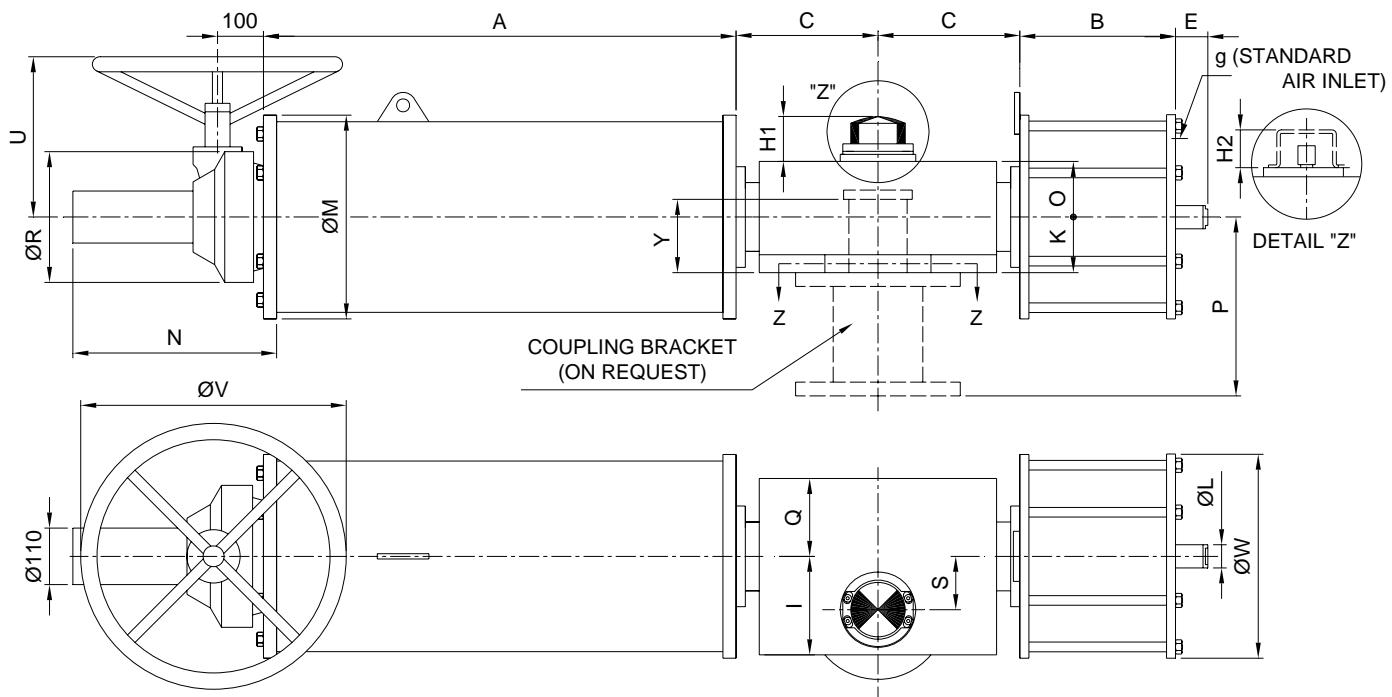
42CrMo4	EN 10083/1
42CrMo4	EN 10083/1
CuAlFe3	EN 1982
N.B.R.	
PTFE+GRAPHITE	
POLYURETHANE	
N.B.R.	
STEEL/BRONZE/TEFLON	
6 S	EN 20898/2
8.8	EN 898/1
ALLOY STEEL	
8.8	EN 898/1
ALLOY STEEL	
8.8	EN 898/1
ALLOY STEEL	
8.8	EN 898/1
BRASS	
AISI 316	
8.8	EN 898/1
8.8	EN 898/1
8.8	EN 898/1

● STANDARD SPARE PARTS

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING WITH MANUAL GEAR

TYPE RSPMR - RCPMR



ACTUATOR DIMENSIONS (mm)

	A	B	C	E	H1	H2	I	K	L	N	O	Q	R	S	U	V	Y	g
RSPMR 2500/...																		
RCPMR 2500/...	1400	490	355	75	55	55	240	170	60	580	130	180	270	130	510	800	150	
RSPMR 4500/...																		
RCPMR 4500/...	1810	610	465	110	55	55	295	155	70	670	155	255	270	170	510	800	170	
RSPMR 7500/...																		
RCPMR 7500/...	1950	740	610	130	55	55	385	235	80	780	185	325	270	225	510	800	220	

DRAWING ONLY FOR SPRING TO CLOSE, FOR SPRING TO OPEN DIMENSIONS ARE SYMMETRICAL IN RESPECT TO THE AXIS VALVES

FLANGE DIMENSIONS (mm)

	D	n° x F	G	X	r	t	ISO	ON REQUEST			
								MIN.	MAX.	Xmin	Xmax
RSPMR 2500/...	415	8 x M 20	298	90	50,4	25	F 30				
RCPMR 2500/...								F 25	F 35	65	100
RSPMR 4500/...	475	8 x M 30	356	120	67,4	32	F 35				
RCPMR 4500/...								F 30	F 40	90	130
RSPMR 7500/...	560	8 x M 36	406	150	83,4	36	F 40				
RCPMR 7500/...								F 35	F 48	145	160

SPRING CARTRIDGE DIAMETER (mm)

RSPMR 2500/.../...	302	303	304	305	313	324	315	325	40X (1)
RCPMR 2500/.../...									
RSPMR 4500/.../...				404	405	413	424	415	425 40X (1)
RCPMR 4500/.../...									

QUOTE "M" (mm) 395 465 510 575 465 510 575 575 (1)
 X (1) SPECIAL EXECUTION AND DIMENSIONS

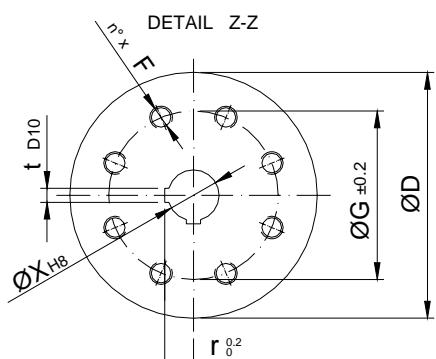
CYLINDER DIAMETER (mm)

TYPE OF CYLINDER	420	500	520	600	620	700	800	900
QUOTE "W" (mm)	540	590	640	695	740	805	930	1050

"H1" - STANDARD INDEX

"H2" - MOUNTING KIT ACCORDING TO VDI-VDE 3845 (ON REQUEST)

"P" - BRACKET ACCORDING TO CUSTOMER REQUIREMENT (ON REQUEST)

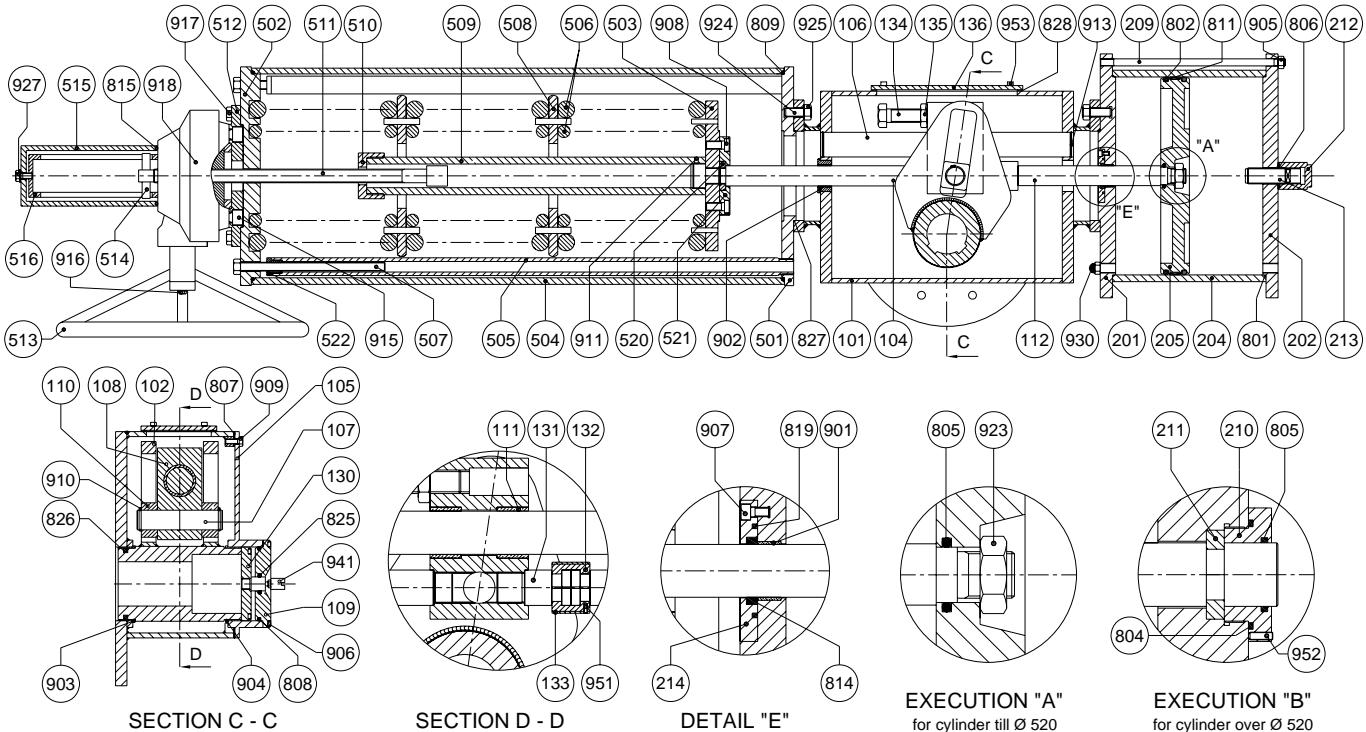


ON REQUEST ISO MALE SPIGOT

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING WITH MANUAL GEAR

TYPE RSPMR - RCPMR



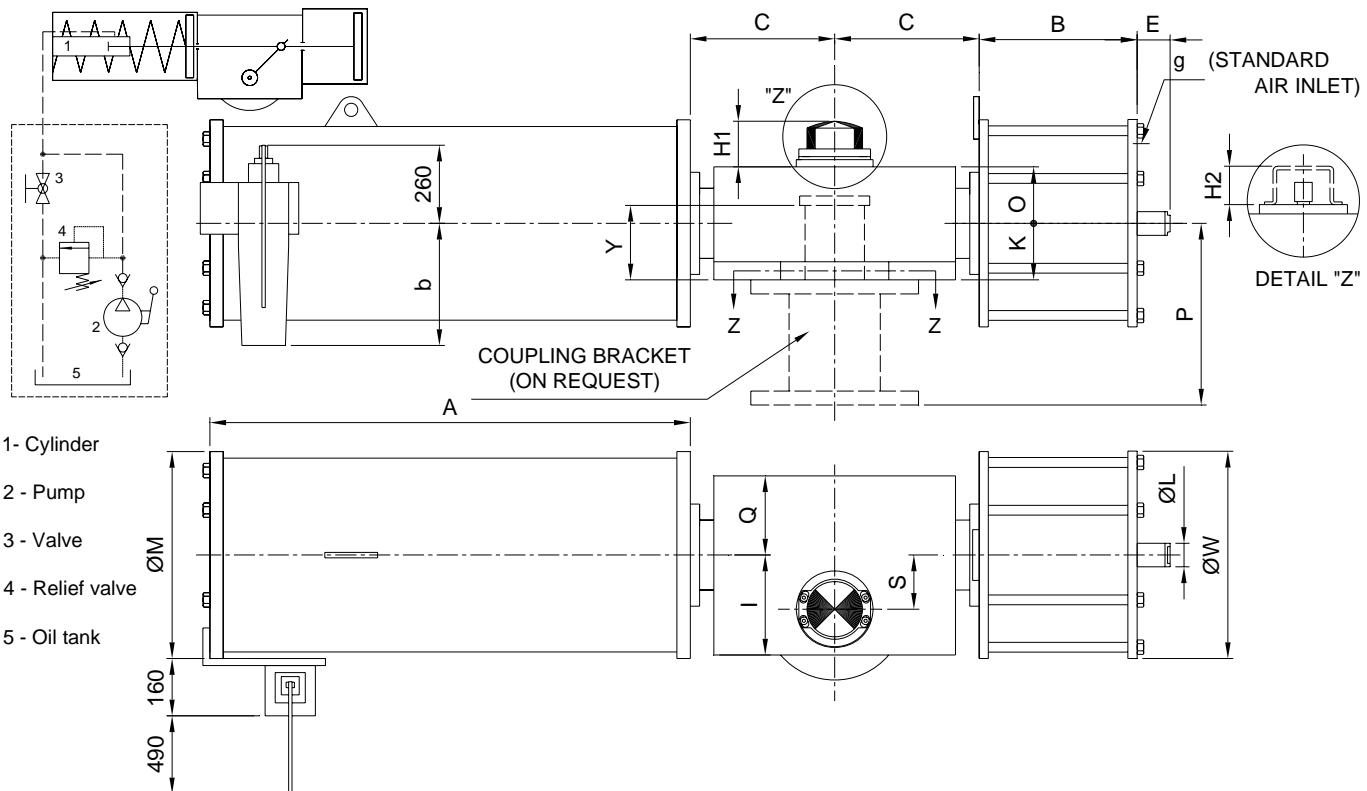
POS.	DESCRIPTION	MATERIAL	POS.	DESCRIPTION	MATERIAL	
101	HOUSING	S 275 JR	EN 10025	520	RING NUT	42CrMo4
102	LINK	S 275 JR	EN 10025	521	SPRING FLANGE	42CrMo4
104	CHROM. SHAFT	42CrMo4	EN 10083/1	522	SAFETY NUT	CuAlFe3
105	COVER	S 275 JR	EN 10025	● 801	O-RING	N.B.R.
106	CHROM. SHAFT	42CrMo4	EN 10083/1	● 802	O-RING	N.B.R.
107	PIN	42CrMo4	EN 10083/1	● 804	O-RING	N.B.R.
108	LINK JOINT	S 275 JR	EN 10025	● 805	O-RING	N.B.R.
109	COVER	S 275 JR	EN 10025	● 806	O-RING	N.B.R.
110	SLIDING RING	BzAI	EN 1982	● 807	COVER GASKET	N.B.R.
111	BUSHING	STEEL/BRONZE/TEFLON		● 808	O-RING	N.B.R.
112	CHROM. SHAFT	42CrMo4	EN 10083/1	● 809	O-RING	N.B.R.
130	LINK CAP	S 275 JR	EN 10025	● 811	PISTON DRIVE	PTFE+GRAPHITE
131	INTERMEDIATE SHAFT	42CrMo4	EN 10083/1	● 814	LIP GASKET	POLYURETHANE
132	LINK	42CrMo4	EN 10083/1	● 815	O-RING	N.B.R.
133	TUBE	E 235	EN 10305/1	● 819	O-RING	N.B.R.
134	STOP SCREW	8.8	EN 898/1	● 825	O-RING	N.B.R.
135	BLOCK NUT	6 S	EN 20898/2	● 826	O-RING	N.B.R.
136	COVER	S 275 JR	EN 10025	● 827	O-RING	N.B.R.
201	HEAD	P 355 NH	EN 10028/3	● 828	GASKET	N.B.R.
202	HEAD	P 355 NH	EN 10028/3	901	BUSHING	STEEL/BRONZE/TEFLON
204	CYLINDER (int. chr. plated)	E 355 SR	EN 10297/1	902	BUSHING	STEEL/BRONZE/TEFLON
205	PISTON (till cylinder Ø 420)	SgAlCu3	EN 1706	903	BUSHING	STEEL/BRONZE/TEFLON
205	PISTON (over cylinder Ø 420)	S 275 JR	EN 10025	904	BUSHING	STEEL/BRONZE/TEFLON
209	STAY BOLT	42 CrMo4	EN 10269	905	NUT	6 S EN 20898/2
210	RING NUT	42CrMo4	EN 10083/1	906	SCREW	8.8 EN 898/1
211	HALF RING	42CrMo4	EN 10083/1	907	SCREW	8.8 EN 898/1
212	CAP	S 275 JR	EN 10025	908	SCREW	8.8 EN 898/1
213	STOP SCREW	C 40	EN 10083/2	909	SCREW	8.8 EN 898/1
214	FLANGE	C 40	EN 10083/2	910	SEEGER	ALLOY STEEL
501	INTERNAL FLANGE	S 275 JR	EN 10025	911	DOWEL	8.8 EN 898/1
502	EXTERNAL FLANGE	S 275 JR	EN 10025	913	SEEGER	ALLOY STEEL
503	SPRING DISC	S 275 JR	EN 10025	915	SCREW	8.8 EN 898/1
504	TUBE	S 235 JR	EN 10025	916	SCREW	8.8 EN 898/1
505	SAFETY TUBE	E 235 SR	EN 10305/1	917	SCREW	8.8 EN 898/1
506	SPRING	SPRING ST.	EN 10270	918	MANUAL REDUCTOR	CARBON STEEL
507	SAFETY BOLT	42CrMo4	EN 10083/1	923	NUT	6 S EN 20898/2
508	SPRING DISC	S 275 JR	EN 10025	924	PIN	8.8 EN 898/1
509	TUBE SLEEVE	E 235 SR	EN 10305/1	925	NUT	6 S EN 20898/2
510	RING NUT	C 40	EN 10083/2	927	SCREW	8.8 EN 898/1
511	STEM	X20Cr13	EN 10088	930	AIR SILENCER	BRASS
512	FLANGE	C 40	EN 10083/2	941	NAMUR PIN	AISI 316
513	HANDWHEEL	E 235 SR	EN 10305/1	951	DOWEL	8.8 EN 898/1
514	PIN	S 275 JR	EN 10025	952	DOWEL	8.8 EN 898/1
515	TUBE	E 235 SR	EN 10305/1	953	SCREW	8.8 EN 898/1
516	TUBE	E 235 SR	EN 10305/1			

- STANDARD SPARE PARTS

PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING WITH HAND PUMP

TYPE RSPMH - RCPMH



ACTUATOR DIMENSIONS (mm)

	A	B	C	H1	H2	E	I	K	L	O	Q	S	Y	g
RSPMH 2500/...		1400	490	355	55	45	75	240	170	60	130	180	130	1/2 NPT
RCPMH 2500/...														
RSPMH 4500/...		1800	610	465	55	45	110	295	155	70	155	255	170	1/2 NPT
RCPMH 4500/...														
RSPMH 7500/...		1950	740	610	55	45	130	385	235	80	185	325	225	3/4 NPT
RCPMH 7500/...														

DRAWING ONLY FOR SPRING TO CLOSE, FOR SPRING TO OPEN DIMENSIONS ARE SYMMETRICAL IN RESPECT TO THE AXIS VALVES

FLANGE DIMENSIONS (mm)

	D	n° x F	G	X	r	t	ISO	ON REQUEST
RSPMH 2500/...	415	8 x M 20	298	90	50,4	25	F 30	MIN. F 25 MAX. F 35 Xmin 65 Xmax 100
RCPMH 2500/...								
RSPMH 4500/...	475	8 x M 30	356	120	67,4	32	F 35	MIN. F 30 MAX. F 40 Xmin 90 Xmax 130
RCPMH 4500/...								
RSPMH 7500/...	560	8 x M 36	406	150	83,4	36	F 40	MIN. F 35 MAX. F 48 Xmin 145 Xmax 160
RCPMH 7500/...								

SPRING CARTRIDGE DIAMETER (mm)

RSPMH 2500/.../...	302	303	304	305	313	324	315	325	40X (1)
RCPMH 2500/.../...									
RSPMH 4500/.../...					404	405	413	424	415 425 40X (1)
RCPMH 4500/.../...									
RSPMH 7500/.../...					404	405	413	424	415 425 40X (1)
RCPMH 7500/.../...									
DIMENSION "M"	395	465	510	575	465	510	575	575	(1)
									X (1) SPECIAL EXECUTION AND DIMENSIONS

CYLINDER DIAMETER (mm)

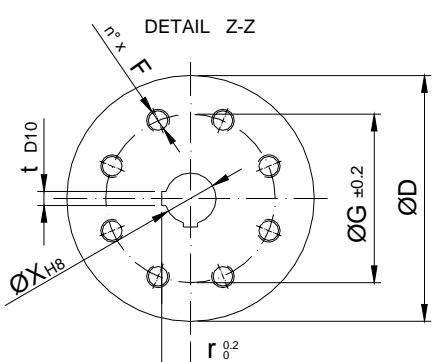
TYPE OF CYLINDER	420	500	520	600	620	700	800	900
DIMENSION "W"	540	590	640	695	740	805	930	1050

QUOTE "b" - TO BE DEFINED

"H1" - STANDARD INDEX

"H2" - MOUNTING KIT ACCORDING TO VDI-VDE 3845 (ON REQUEST)

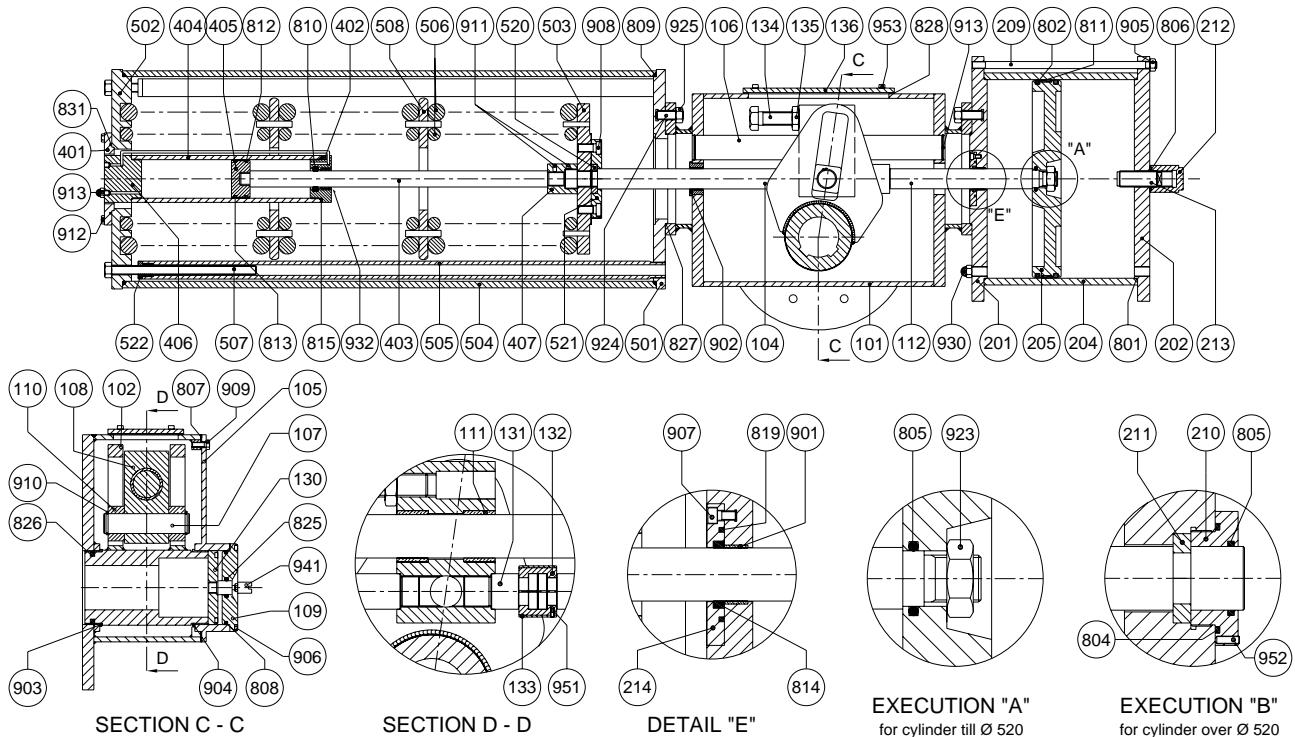
"P" - BRACKET ACCORDING TO CUSTOMER REQUIREMENT (ON REQUEST)



PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

SINGLE ACTING WITH HAND PUMP

TYPE RSPMH - RCPMH



PNEUMATIC QUARTER TURN ACTUATOR SCOTCH-YOKE EXECUTION

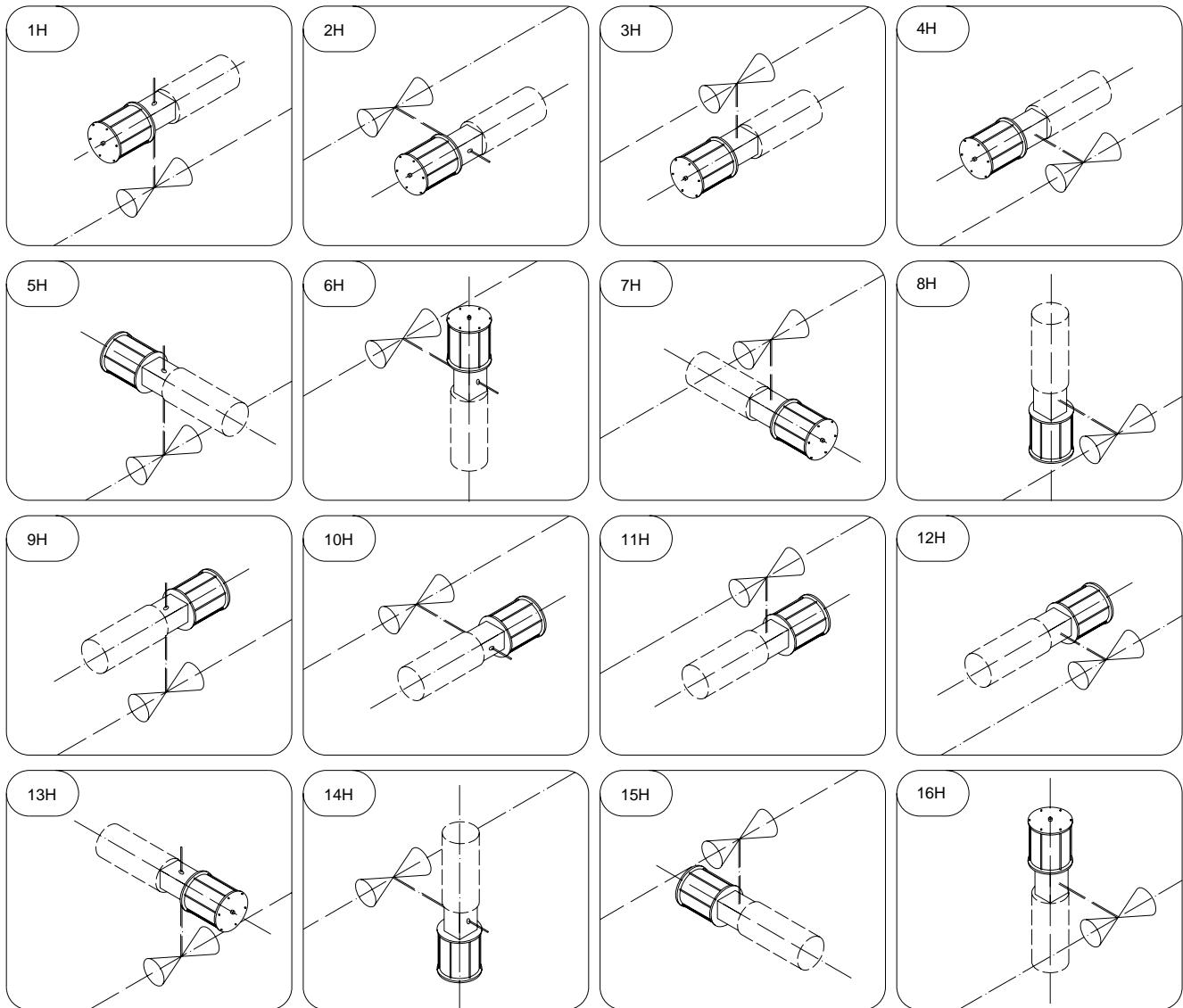
VALVE - ACTUATOR COUPLING

VALVE BOTTOM
ACTUATOR ABOVE

VALVE LEFT SIDE

VALVE ABOVE
ACTUATOR BOTTOM

VALVE RIGHT SIDE



VALVE VERTICAL PIPE

