

RD (DECLUTCHABLE GEAR OVERRIDES)

The RD series operators are designed to provide a means of manually overriding pneumatic valve actuators in power and process applications.

(HAZARDOUS AREA)

The SOLDO RD series declutchable gear overrides are ATEX marked  II 2 GD c Tmax 75°C according to ATEX directive suitable for use in zone 1, 2, 21 and 22 (category 2 and 3).

(MOUNTING BETWEEN VALVE AND ACTUATOR)

RD gear operators are installed between valve and actuator. They are provided with an integral ISO5211 flange for the actuator and a bottom ISO flange for the valve. These two flanges can be machined with various ISO patterns according to customer needs.

(VALVE AND ACTUATOR MOUNTING KIT)

SOLDO is specialised in valve and actuator mounting kits. All the gears can be supplied complete with valve and actuator mounting kits. In our factory we can also assemble customer's valves and actuators with gear operators and control accessories.

(HEAVY DUTY HOUSING)

The polyester powder coating make this gear operator ideal for use in hostile environments: the housing cylindrical shape, the cem worm screw and tempered guarantee an high mechanical efficiency.

(WIDE TORQUE RANGE)

RD gear operators are available in 3 different sizes with output torque from 500 Nm to 3.500 Nm.

(DISENGAGEABLE DESIGN)

Disengageable design for use with double acting and spring return pneumatic actuators.

(WEATHER PROOF ENCLOSURE)

RD gear operators housing is 100% sealed and submersible to 0,2 bar.
Gear oil bath lubricating system available on request.

(INDEPENDENT STROKE ADJUSTMENT)

Standard RD gear operators are provided with two independent stroke adjustments $90^\circ \pm 5^\circ$.
On request, the RD series has the possibility to have different stroke: 120°, 180° and 360° (without lock).



(MATERIALS)

Housing	: cast iron
Input shaft	: stainless steel
Gear segment	: ductile iron
Lever	: stainless steel

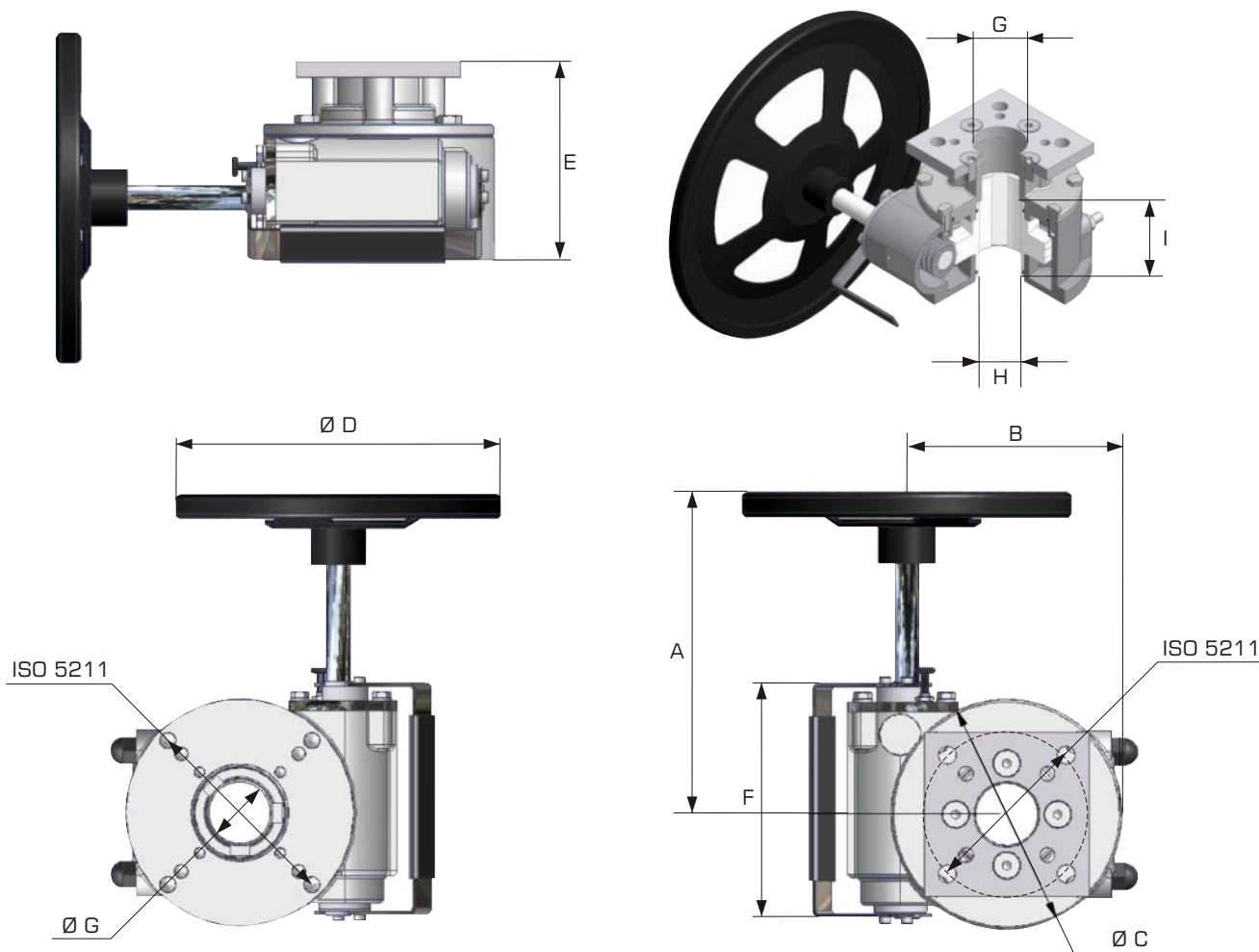
(RATINGS)

Torque range	: 500 Nm to 3.500 Nm
Stroke	: $90^\circ \pm 5^\circ$ (120° on request)
Temp. range	: -20°C + 80°C
High Temperature execution available on request	

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[DIMENSION mm]

model	ratio	max output torque	B	C	E	F	G	H	I	valve ISO (to specify)	actuator ISO (to specify)
RD10	40:1	500 Nm	145	140	121	150	38	44	78	F07-F10-F12	F07-F10-F12
RD20	50:1	1.800 Nm	190	210	171	185	62	60	99	F10-F12-F14-F16	F10-F12-F14-F16
RD30	72:1	3.500 Nm	275	290	192	270	82	80	105	F16-F25	F16-F25



[HANDWHEEL]

RD10				RD20				RD30			
max output torque	handwheel	A	D	max output torque	handwheel	A	D	max output torque	handwheel	A	D
300 Nm	VM200-15	190	200	1.200 Nm	VM400-20K	245	400	2.500 Nm	VM600-20K	430	600
500 Nm	VM300-15	200	300	1.500 Nm	VM500-20K	385	500	3.000 Nm	VM800-20K	530	800
				1.800 Nm	VM600-20K	385	600	3.500 Nm	VM1000-20K	530	1000

SOLDO
CONTROLS

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