



ECON® Hydraulic actuator Series: ESH Type: 21201 Quarter turn Single acting, spring closing

Characteristics

Series: ESH

Type: 21201

Transmission: Quarter turn

Type of drive: Hydraulic

Operating principle: Single acting, spring closing

Signal pressure: 135 bar

Test pressure: 210 bar

Top flange standard: ISO 5211

Actuator stem shape: Insert with lock pins

Maximum angle of rotation: 92 °

With mechanical setting indicator: Yes

Hydraulic connection: 1/4" BSP

Material housing: Steel

Material quality: C45 [1.0503]

Housing surface protection: Nitrocarburized & epoxy coating

Spindle material: Steel

Material bolts: Galvanized steel

Ambient temperature: -18 / 75 °C

Application

- This hydraulic actuator with rack and pinion is suitable for actuating butterfly valves, plug valves and ball valves.
- The modular design makes it easy to equip the actuator with a variety of hydraulic accessories.

Technical Information

- Single acting with an output torque of up to 2315Nm
- Operating temperature of -20°C to +80°C
- The rotation angle is 90 degrees, when closed it is +/- 5 degrees, when open and in the end position it is 92 degrees. The angle can be altered by using the adjusting screw to adjust the stop.
- Nodular cast iron housing
- Visual position indicator
- Operating pressure: 135bar

Construction

- Rack and pinion design
- Gas spring for spring reset functionality
- Connection fitted in accordance with ISO 5211
- Spindle can be adapted using loose inserts
- Hydraulic connection via standardised connecting flange with 0.25-inch BSP female thread
- Non-corroding two-component coating

Execution

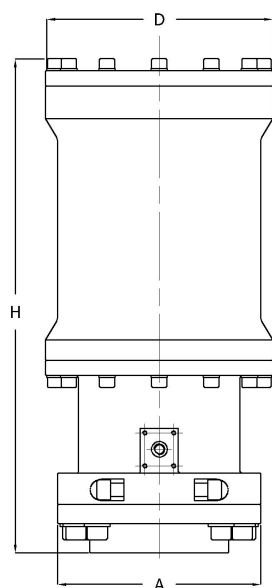
- Single acting open/closed

Approval

- Lloyd's Register type approval.

Options

- Opened using spring function
- Mechanical spring
- Additional coating for specific applications
- Equipped with a control box containing reed switches and, if necessary, a potentiometer
- Equipped with a powerpack from the EHP-SA series



Size table:

Model	A mm	D mm	H mm	Weight kg
ESH-1	145	140	335	22
ESH-2	167	172	446	73
ESH-3	198	217	505	134
ESH-4	242	270	588	42

Type of regulation	Model	Torque single acting start Nm	Torque single acting end Nm	Torque single acting start spring Nm	Torque single acting end spring Nm	Mounting flange	Mounting flange 2	Shaft diameter mm	Depth connection mm	Article
On/Off	ESH-1	430	130	130	400	F05	F07	30	30	13496601
On/Off	ESH-2	800	320	285	700	F07	F10	40	40	13503743
On/Off	ESH-3	1400	530	520	1400	F10	F12	50	45	13503744
On/Off	ESH-4	2600	1150	1050	2600	F12		60	67	13503745

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