



CERTIFICATE NUMBER  
EFFECTIVE DATE  
EXPIRY DATE  
ABS TECHNICAL OFFICE

24-00T2526808-PDA  
23-May-2024  
22-May-2029  
Genoa Engineering Department

## CERTIFICATE OF Product Design Assessment

This is to certify that a representative of this Bureau did, at the request of

### **ROTORK FLUID SYSTEMS SRL**

located at

**VIA PADRE JACQUES HAMEL 138B, , PORCARI, Italy, 55016**

assess design plans and data for the below listed product. This assessment is a representation by the Bureau as to the degree of compliance the design exhibits with applicable sections of the Rules. This assessment does not waive unit certification or classification procedures required by ABS Rules for products to be installed in ABS classed vessels or facilities. This certificate, by itself, does not reflect that the product is Type Approved. The scope and limitations of this assessment are detailed on the pages attached to this certificate.

**Product:** Actuator, Pneumatic and Hydraulic for Quarter-Turn Valves  
**Model:** GP series  
**Endorsements:**  
**Tier:** 2 - PDA Issued

This Product Design Assessment (PDA) Certificate remains valid until 22/May/2029 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

Acceptance of product is limited to the "Intended Service" details prescribed in the certificate and as per applicable Rules and Standards.

This Certificate is valid for installation of the listed product on ABS units which exist or are under contract for construction on or previous to the effective date of the ABS Rules and standards applied at the time of PDA issuance. Use of the Product for non-ABS units is subject to agreement between the manufacturer and intended client.

American Bureau Of Shipping

Cristina Generale,Engineer/Consultant

NOTE: This certificate evidences compliance with one or more of the Rules, Guides, standards or other criteria of ABS or a statutory, industrial or manufacturer's standards. It is issued solely for the use of ABS, its committees, its clients or other authorized entities. Any significant changes to the aforementioned product without approval from ABS will result in this certificate becoming null and void. This certificate is governed by ABS Rules 1-1-A3/5.9 Terms and Conditions of the Request for Product Type Approval and Agreement (2010)

**ROTORK FLUID SYSTEMS SRL**  
VIA PADRE JACQUES HAMEL 138B  
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Italy 55016  
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Web: www.rotork.com

**Tier: 2 - PDA Issued**

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**Product:** Actuator, Pneumatic and Hydraulic for Quarter-Turn Valves  
**Model:** GP series  
**Endorsements:**

**Intended Service:**  
Operation of quarter turn valves

**Description:**  
Scotch Yoke spring return and double acting pneumatic actuators.  
Body (not pressurized): available in cast iron or carbon steel.  
Cylinder: Carbon Steel  
Seal material to be selected (NBR, Viton, Fluorosilicon) as a function of maximum intended working temperature and/or operative fluid.

**Rating:**  
Actuators belong to 10 groups according to yoke arm (065, 085,100, 130, 161, 200, 201, 270, 271, 350), with cylinder diameter ranging from 180 mm to 970(1350 mm) as follow:  
GP/S(D)065-180/235/280/335/385  
GP/S(D)085-180/235/280/335/385/435/485/535  
GP/S(D)100-335/385/435/485/535/585  
GP/S(D)130-335/385/435/485/535/585/635/685/735  
GP/S(D)161-485/535/585/635/685/735/785/835/885  
GP/S(D)200-485/535/585/635/685/735/785/835/885/935/937(985)  
GP/S(D)201-735/785/835/885/935/937(985)/940(1050)  
GP/S(D)270-785/835/885/935/937(985)/940(1050)/942(1100)/945(1150)/960(1200)/962(1250)  
GP/S(D)271-785/835/885/935/937(985)/940(1050)/942(1100)/945(1150)/960(1200)/962(1250)/965(1300)/970(1350)  
GP/S(D)350-937(985)/940(1050)/942(1100)/945(1150)/960(1200)/962(1250)/965(1300)/970(1350)

Maximum Allowable Working Pressure: up to 12 bar.  
Design temperature range: -40°C to +100°C

**Service Restriction:**  
Unit certification is not required for this product. If the manufacturer or purchaser request an ABS Certificate for compliance with a specification or standard, the specification or standard, including inspection standards and tolerances, must be clearly defined.  
Each individual unit to be pressure tested by the Manufacturer according to selected material: 1.5 times the MAWP. Ref. to par. 4-6-7/3.5.5 (b) ii) of the Rules.

**Comments:**  
The Manufacturer has provided a declaration about the control of, or the lack of Asbestos in this product.

**Notes/Drawing/Documentation:**  
GD\_2500, GP-130-735 PED CYLINDER- LOW TEMP.  
GD2451, GP-200/201-735 PED CYLINDER  
GD\_2521, GP-350-937 PED CYLINDER LOW TEMP.  
EC-0P-008-GD02510, D.P. EN13445 - PED  
GD\_2578, GP-085-235 PED CYLINDER  
GD\_2514, GP-270/271-940 PED CYLINDER LOW TEMP.  
EC-0P-008-GD02549, D.P. EN13445 - PED  
EC-0P-008-GD02544, D.P. EN13445 - PED  
GD\_2490, GP-200/201-485 PED CYLINDER-LOW TEMP  
EC-0P-008-GD02508, D.P. EN13445 - PED  
GD\_2479, GP-270-835 PED CYLINDER-LOW TEMP.

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EC-0P-008-GD02445, D.P. EN13445 - PED  
GD\_2515, GP-270/271-942 PED CYLINDER LOW TEMP.  
GD2455, GP-270-935 PED CYLINDER  
GD\_2487, GP-200/201-635 PED CYLINDER- LOW TEMP.  
GD2449, GP-200/201-935 PED CYLINDER  
GD\_2504, GP-200/201-940 PED CYLINDER LOW TEMP  
GD02577, GP-085-280 PED CYLINDER  
GD\_2503, GP-130-585 PED CYLINDER-LOW TEMP.  
GD\_2467, GP-350-945 PED CYLINDER  
GD\_2480, GP-270-785 PED CYLINDER- LOW TEMP.  
EC-0P-008, D.P. EN13445 - PED1  
GD2459, GP-270/271-945 PED CYLINDER  
GD2447, GP-200/201-785 PED CYLINDER  
EC-0P-008-GD02488, D.P. EN13445 - PED  
EC-0P-008-GD02551, D.P. EN13445 - PED  
GD2453, GP-270-785 PED CYLINDER  
GD\_2488, GP-200/201-585 PED CYLINDER- LOW TEMP.  
EC-0P-008-GD02468, D.P. EN13445 - PED  
EC-0P-008-GD02482, D.P. EN13445 - PED  
GD\_2522, GP-350-940 PED CYLINDER LOW TEMP  
GD\_2575, GP-085-335 - PED CYLINDER - LOW T  
EC-0P-008-GD02460, D.P. EN13445 - PED  
EC-0P-008-GD02516, D.P. EN13445 - PED  
GD\_2527, GP-350-965 PED CYLINDER LOW TEMP.  
EC-0P-008-GD02446, D.P. EN13445 - PED  
GD02707, GP-085-435 PED CYLINDER  
EC-0P-008-GD02509, D.P. EN13445 - PED  
EC-0P-008-GD02710, D.P. EN13445 - PED  
GD02709, GP-085-535 PED CYLINDER  
GD\_2502, GP-130-635 PED CYLINDER-LOW TEMP.  
GD\_2547, GP-160/161-585 PED CYLINDER  
EC-0P-008-GD02490, D.P. EN13445 - PED  
EC-0P-008-GD02459, D.P. EN13445 - PED  
EC-0P-008-GD02483, D.P. EN13445 - PED  
EC-0P-008-GD02455, D.P. EN13445 - PED  
EC-0P-008-GD02489, D.P. EN13445 - PED  
EC-0P-008-GD02458, D.P. EN13445 - PED  
EC-0P-008-GD02448, D.P. EN13445 - PED  
EC-0P-008-GD02496, D.P. EN13445 - PED  
EC-0P-008-GD02513, D.P. EN13445 - PED  
GD02706, GP-085-385 PED CYLINDER  
GD\_2495, GP-160/161-685 PED CYLINDER-LOW TEMP.  
EC-0P-008-GD02461, D.P. EN13445 - PED  
EC-0P-008-GD02464, D.P. EN13445 - PED  
GD\_2509, GP-130-535 PED CYLINDER LOW TEMP.  
EC-0P-008-GD02465, D.P. EN13445 - PED  
GD\_2440, GP-160/161-785 PED CYLINDER  
EC-0P-008-GD02463, D.P. EN13445 - PED  
EC-0P-008-GD02474, D.P. EN13445 - PED  
EC-0P-008-GD02462, D.P. EN13445 - PED  
GD\_2516, GP-270/271-945 PED CYLINDER LOW TEMP.  
GP MODELS MAWP, GP MODELS MAWP  
EC-0P-008-GD02491, D.P. EN13445 - PED  
EC-0P-008-GD02548, D.P. EN13445 - PED

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GD\_2518, GP-270/271-962 PED CYLINDER LOW TEMP  
GD\_2476, GP-200/201-940 PED CYLINDER  
GD\_2483, GP-200/1-885 PED CYLINDER-LOW TEMP.  
EC-0P-008-GD02501, D.P. EN13445 - PED  
GD02711, GP-130-385 - PED CYLINDER  
EC-0P-008-GD02567, D.P. EN13445 - PED  
GD02712, GP-130-435 PED CYLINDER  
EC-0P-008-GD02511, D.P. EN13445 - PED  
EC-0P-008-GD02500, D.P. EN13445 - PED  
GD\_2499, GP-160/161-485 PED CYLINDER- LOW TEMP.  
EC-0P-008-GD02514, D.P. EN13445 - PED  
GD\_2549, GP-160/161-685 PED CYLINDER  
GD\_2548, GP-160/161-635 PED CYLINDER  
GD\_2523, GP-350-942 PED CYLINDER LOW TEMP.  
GD\_2566, GP-085-435 PED CYLINDER - LOW T  
GD\_2463, GP-271-970 PED CYLINDER  
GD02704, GP-065/085-180 PED CYLINDER  
EC-0P-008-GD02704, D.P. EN13445 - PED  
EC-0P-008-GD02504, D.P. EN13445 - PED  
EC-0P-008-GD02453, D.P. EN13445 - PED  
EC-0P-008-GD02577, D.P. EN13445 - PED  
EC-0P-008-GD02712, D.P. EN13445 - PED  
GD\_2497, GP-160/161-585 PED CYLINDER-LOW TEMP.  
EC-0P-008-GD02527, D.P. EN13445 - PED  
EC-0P-008-GD02528, D.P. EN13445 - PED  
EC-0P-008-GD02708, D.P. EN13445 - PED  
GD\_2466, GP-350-942 PED CYLINDER  
GD\_2510, GP-200/201-935 PED CYLINDER LOW TEMP.  
EC-0P-008-GD02456, D.P. EN13445 - PED  
EC-0P-008-GD02515, D.P. EN13445 - PED  
GD\_2472, GP-130-735 PED CYLINDER  
GD\_2507, GP-130-435 PED CYLINDER - LOW T  
EC-0P-008-GD02497, D.P. EN13445 - PED  
GD\_2501, GP-130-685 PED CYLINDER-LOW TEMP.  
GD\_2471, GP-350-970 PED CYLINDER  
EC-0P-008-GD02457, D.P. EN13445 - PED  
GD02708, GP-085-485 PED CYLINDER  
GD2450, GP-200/201-937 PED CYLINDER  
EC-0P-008-GD02526, D.P. EN13445 - PED  
GD2462, GP-271-965 PED CYLINDER  
GD\_2482, GP-200/201-735 PED CYLINDER-LOW TEMP.  
EC-0P-008-GD02498, D.P. EN13445 - PED  
GD\_2511, GP-200/201-937 PED CYLINDER LOW TEMP.  
GD\_2473, GP-130-635 PED CYLINDER  
EC-0P-008-GD02477, D.P. EN13445 - PED  
GD\_2470, GP-350-965 PED CYLINDER  
EC-0P-008-GD02476, D.P. EN13445 - PED  
EC-0P-008-GD02521, D.P. EN13445 - PED  
GD\_2562, GP-130-485 PED CYLINDER  
GD2454, GP-270-835 PED CYLINDER  
EC-0P-008-GD02470, D.P. EN13445 - PED  
EC-0P-008-GD02506, D.P. EN13445 - PED  
EC-0P-008-GD02487, D.P. EN13445 - PED  
EC-0P-008-GD02466, D.P. EN13445 - PED

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EC-0P-008-GD02484, D.P. EN13445 - PED  
GD\_2485, GP-200/201-785 PED CYLINDER-LOW TEMP.  
GD\_2491, GP-160/161-885 PED CYLINDER-LOW TEMP.  
GD\_2519, GP-271-965 PED CYLINDER LOW TEMP.  
EC-0P-008-GD02709, D.P. EN13445 - PED  
EC-0P-008-GD02512, D.P. EN13445 - PED  
EC-0P-008-GD02522, D.P. EN13445 - PED  
GD\_2492, GP-160/161-835 PED CYLINDER-LOW TEMP.  
EC-0P-008-GD02486, D.P. EN13445 - PED  
GD02706-A, GP-085-385 PED CYLINDER  
EC-0P-008-GD02566, D.P. EN13445 - PED  
EC-0P-008-GD02579, D.P. EN13445 - PED  
GD\_2565, GP-085-485 PED CYLINDER LOW T  
GD\_2512, GP-270-935 PED CYLINDER LOW TEMP.  
EC-0P-008-GD02505, D.P. EN13445 - PED  
EC-0P-008-GD02473, D.P. EN13445 - PED  
EC-0P-008-GD02706, D.P. EN13445 - PED  
GD\_2567, GP-085-385 PED CYLINDER  
EC-0P-008-GD02494, D.P. EN13445 - PED  
EC-0P-008-GD02493, D.P. EN13445 - PED  
GD\_2508, GP-130-485 PED CYLINDER - LOW TEMP  
EC-0P-008-GD02562, D.P. EN13445 - PED  
GD\_2574, GP-085-280 - PED CYLINDER  
EC-0P-008-GD02545, D.P. EN13445 - PED  
GD\_2465, GP-350-940 PED CYLINDER  
GD2445, GP-200/201-635 PED CYLINDER  
EC-0P-008-GD02705, D.P. EN13445 - PED  
GD\_2484, GP-200/201-835 PED CYLINDER-LOW TEMP.  
GD2446, GP-200/201-685 PED CYLINDER  
GD02705, GP-065/085-180 PED CYLINDER  
GD2444, GP-200/201-585 PED CYLINDER  
GD\_2475, GP-200/1-885 PED CYLINDER  
EC-0P-008-GD02495, D.P. EN13445 - PED  
GD\_2469, GP-350-962 PED CYLINDER  
GD\_2564, GP-085-535 PED CYLINDER - LOW T  
EC-0P-008-GD02469, D.P. EN13445 - PED  
EC-0P-008-GD02576, D.P. EN13445 - PED  
GD2461, GP-270/271-962 PED CYLINDER  
GD\_2474, GP-270-885 PED CYLINDER  
EC-0P-008-GD02472, D.P. EN13445 - PED  
GD2460, GP-270/271-960 PED CYLINDER  
EC-0P-008-GD02519, D.P. EN13445 - PED  
EC-0P-008-GD02542, D.P. EN13445 - PED  
GD\_2478, GP-270-885 PED CYLINDER-LOW TEMP.  
GD02710, GP-130-335 - PED CYLINDER  
GD02579, GP-085-235 PED CYLINDER  
GD\_2545, GP-160/161-485 PED CYLINDER  
EC-0P-008-GD02564, D.P. EN13445 - PED  
GD\_2526, GP-350-962 PED CYLINDER LOW TEMP.  
EC-0P-008-GD02575, D.P. EN13445 - PED  
GD\_2513, GP-270-937 PED CYLINDER LOW TEMP.  
EC-0P-008-GD02546, D.P. EN13445 - PED  
EC-0P-008-GD02451, D.P. EN13445 - PED  
EC-0P-008-GD02517, D.P. EN13445 - PED

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EC-0P-008-GD02499, D.P. EN13445 - PED  
GP upload list, GP upload list  
GD\_2477, GP-160/161-885 PED CYLINDER  
GP MODELS LIST, GP MODELS LIST  
EC-0P-008-GD02471, D.P. EN13445 - PED  
EC-0P-008-GD02454, D.P. EN13445 - PED  
GD2457, GP-270/271-940 PED CYLINDER  
GD\_2442, GP-200/201-485 PED CYLINDER  
GD\_2542, GP-130-535 PED CYLINDER  
GD2443, GP-200/201-535 PED CYLINDER  
EC-0P-008-GD02520, D.P. EN13445 - PED  
GD\_2494, GP-160/161-735 PED CYLINDER-LOW TEMP  
EC-0P-008-GD02543, D.P. EN13445 - PED  
GD\_2524, GP-350-945 PED CYLINDER LOW TEMP.  
EC-0P-008-GD02449, D.P. EN13445 - PED  
GD2448, GP-200/201-835 PED CYLINDER  
EC-0P-008-GD02578, D.P. EN13445 - PED  
GD\_2489, GP-200/201-535 PED CYLINDER- LOW TEMP.  
GD\_2496, GP-160/161-635 PED CYLINDER-LOW TEMP.  
EC-0P-008 - GD02443, D.P. EN13445 - PED  
EC-0P-008-GD02467, D.P. EN13445 - PED  
EC-0P-008-GD02547, D.P. EN13445 - PED  
GD\_2505, GP-130-335 - PED CYLINDER LOW T  
GD2458, GP-270/271-942 PED CYLINDER  
EC-0P-008-GD02565, D.P. EN13445 - PED  
EC-0P-008-GD02507, D.P. EN13445 - PED  
GD\_2464, GP-350-937 PED CYLINDER  
GD\_2468, GP-350-960 PED CYLINDER  
EC-0P-008-GD02440, D.P. EN13445 - PED  
EC-0P-008-GD02480, D.P. EN13445 - PED  
GD\_2486, GP-200/201-685 PED CYLINDER-LOW TEMP  
GD\_2525, GP-350-960 PED CYLINDER LOW TEMP.  
GD\_2517, GP-270/271-960 PED CYLINDER LOW TEMP.  
EC-0P-008-GD02523, D.P. EN13445 - PED  
GD\_2576, GP-085-280 PED CYLINDER  
GD02424, GP-085-435 PED CYLINDER  
EC-0P-008\_Rev01\_GD02424 D.P. EN13445 - PED  
EC-0P-008\_Rev01\_GD02441 D.P. EN13445 - PED  
GD02441, GP-161-835 PED CYLINDER  
EC-0P-008\_Rev01\_GD02442 D.P. EN13445 - PED  
EC-0P-008\_Rev01\_GD02444 D.P. EN13445 - PED  
EC-0P-008\_Rev01\_GD02447 D.P. EN13445 - PED  
EC-0P-008\_Rev01\_GD02450 D.P. EN13445 - PED  
GD02456, GP-270-937 PED CYLINDER  
EC-0P-008\_Rev01\_GD02475 D.P. EN13445 - PED  
EC-0P-008\_Rev01\_GD02478 D.P. EN13445 - PED  
EC-0P-008\_Rev01\_GD02479 D.P. EN13445 - PED  
EC-0P-008\_Rev01\_GD02485 D.P. EN13445 - PED  
EC-0P-008\_Rev01\_GD02492 D.P. EN13445 - PED  
GD02493, GP-161-785 PED CYLINDER LOW TEMP  
GD02498, GP-161-535 PED CYLINDER LOW TEMP  
EC-0P-008\_Rev01\_GD02502 D.P. EN13445 - PED  
EC-0P-008\_Rev01\_GD02503 D.P. EN13445 - PED  
EC-0P-008\_Rev01\_GD02518 D.P. EN13445 - PED

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EC-0P-008\_Rev01\_GD02524 D.P. EN13445 - PED  
EC-0P-008\_Rev01\_GD02525 D.P. EN13445 - PED  
GD02520, GP-271-970 PED CYLINDER LOW TEMP  
GD02528, GP-350-970 PED CYLINDER LOW TEMP  
GD02543, GP-100-585 PED CYLINDER  
GD02544, GP-130-685 PED CYLINDER  
GD02546, GP-161-535 PED CYLINDER  
GD02551, GP-161-735 PED CYLINDER  
EC-0P-008\_Rev01\_GD02574 D.P. EN13445 - PED  
EC-0P-008\_Rev01\_GD02711 D.P. EN13445 - PED

**Terms of Validity:**

This Product Design Assessment (PDA) Certificate remains valid until 22/May/2029 or until the Rules and/or Standards used in the assessment are revised or until there is a design modification warranting design reassessment (whichever occurs first).

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**STANDARDS**

**ABS Rules:**

2024 Rules for Conditions of Classification, 1A-1-4/7.7, 1A-1-A3, 1A-1-A4, which covers the following:  
2024 Marine Vessel Rules: 4-4-1,4-4-A1  
2024 Steel Vessels for Service on Rivers and Intracoastal Waterways Rules: 4-1-1/11  
2024 Rules for Conditions of Classification, 1C-1-4/11.9, 1C-1-A2 and A3, which covers the following:  
2024 High Speed Craft Rules: 4-1-1/7.5, 4-1-1/31  
2024 Rules for Conditions of Classification, 1B-1-4/9.7, 1B-1-A2, 1B-1-A3, which covers the following:  
2024 Mobile Offshore Units Rules: 6-1-5  
2024 Facilities on Offshore Installations Rules: 1-6/9

**National:**

NA

**International:**

EN 13445-3, Ed. 2021  
ASME VIII Div.1, Ed. 2023

**Government:**

NA

**EUMED:**

NA

**OTHERS:**

NA