



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
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PORCARI LUCCA
Italy 55016
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Email: fluid@rotork.com
Web: www.rotork.com

Tier: 2 - PDA Issued

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).

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

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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