

TYPE APPROVAL CERTIFICATE

This is to certify:
that the Pipe Support

with type designation(s)
see table below

issued to
Dae Chun Ind. Co., Ltd.
Gimhae-si, Gyeongsangnam-do, Korea, Republic of

is found to comply with
DIN 3015-1 Fastening clamps – Block clamps – Part 1: Light duty (L)
DIN 3015-2 Fastening clamps – Block clamps – Part 2: Heavy duty (S)
DIN 3015-3 Fastening clamps – Block clamps – Part 3: Double clamps (Z)
DIN 3015-10 Fastening clamps – Block clamps – Part 10: Technical delivery conditions

Application:

Products approved by this certificate are accepted for installation on all vessels classed by DNV.

Type:	Sizes:
DCH1-xx-PP/PA-BN-M-SS/SG (H1)	6.35-9.52-12.7-15.9 mm
DCH1-xx-PP/PA-BN-M-SS/SG (H2)	19.0-25.4 mm
DCH1-xx-PP/PA-WP-M-SS/SG (H1)	6.35-9.52-12.7-15.9 mm
DCH2-xx-PP/PA-WP-M-SS/SG (H2)	19.0-25.4 mm
DCH1T-xx-PP/PA-BN-M-SS/SG (H1)	6.35-9.52-12.7-15.9 mm
DCH2T-xx-PP/PA-BN-M-SS/SG (H2)	19.0-25.4 mm
DCH1M6-xx-PP/PA-BN-M-SS/SG (H1)	6.35-9.52-12.7-15.9 mm
DCH2M6-xx-PP/PA-BN-M-SS/SG (H2)	19.0 mm
DCH1M12-xx-PP/PA-BN-M-SS/SG (H1)	6.35-9.52-12.7-15.9 mm
DCH2M12-xx-PP/PA-BN-M-SS/SG (H2)	19.0 mm
DCH2M12/2-xx-PP/PA-BN-M-SS/SG (H1)	6.35-9.52-12.7-15.9 mm
DCH2M12/2-xx-PP/PA-BN-M-SS/SG (H2)	19.0 mm
DCH2-T-xx-PP/PA-BN-M-SS/SG (H2-T)	9.52-12.7-15.8-19.0-25.4 mm
4.4.B.xx	9.52-12.7-15.9-19.0-38.0 mm

Issued at **Hamburg** on **2025-01-08**

This Certificate is valid until **2030-01-07**.

for **DNV**

DNV local unit: **AK Admin Support**

Approval Engineer: **Jörg Hille**

This Certificate is subject to terms and conditions overleaf. Any significant change in design or construction may render this Certificate invalid.
The validity date relates to the Type Approval Certificate and not to the approval of equipment/systems installed.

LEGAL DISCLAIMER: Unless otherwise stated in the applicable contract with the holder of this document, or following from mandatory law, the liability of DNV AS, its parent companies and their subsidiaries as well as their officers, directors and employees ("DNV") arising from or in connection with the services rendered for the purpose of the issuance of this document or reliance thereon, whether in contract or in tort (including negligence), shall be limited to direct losses and under any circumstance be limited to 300,000 USD.



Product description

Type DCHxx and 4.4.B are mechanical pipe supports with a plastic clamp body, fixed by metallic plates, bolts and nuts.

Materials and components

Type No.	Group	Sizes mm (xx)	Bolt (Thread, Material)	Cover Plate	Locking Plate	Nut	Stacking Bolt (Thread, Material)	Welding Plate
DCH1-xx-PP/PA-BN-M-SS/SG	H1	6.35, 9.52, 12.7, 15.9	316, SS400 M10x70	316, SS400	-	316, SS400	-	-
DCH1-xx-PP/PA-BN-M-SS/SG	H2	19.0, 25.4	316, SS400 M10x85	316, SS400	-	316, SS400	-	-
DCH1-xx-PP/PA-WP-M-SS/SG	H1	6.35, 9.52, 12.7, 15.9	316, SS400 M10x45	316, SS400	316, SS400	-	316, SS400 M10x53	316, SS400
DCH2-xx-PP/PA-WP-M-SS/SG	H2	19.0, 25.4	316, SS400 M10x60	316, SS400	316, SS400	-	316, SS400 M10x68	316, SS400
DCH1-xx-PP/PA-WP-M-SS/SG	H1	6.35, 9.52, 12.7, 15.9	316, SS400 M10x40	316, SS400	-	-	-	316, SS400
DCH2-xx-PP/PA-WP-M-SS/SG	H2	19.0, 25.4	316, SS400 M10x55	316, SS400	-	-	-	316, SS400
DCH1T-xx-PP/PA-BN-M-SS/SG	H1	6.35, 9.52, 12.7, 15.9	316, SS400 M10x70	316, SS400	-	316, SS400	-	-
DCH2T-xx-PP/PA-BN-M-SS/SG	H2	19.0-25.4	316, SS400 M10x85	316, SS400	-	316, SS400	-	-
DCH1M6-xx-PP/PA-BN-M-SS/SG	H1	6.35, 9.52, 12.7, 15.9	316, SS400 M10x70	316, SS400	316, SS400	316, SS400	316, SS400 M10x45	-
DCH2M6-xx-PP/PA-BN-M-SS/SG	H2	19.0	316, SS400 M10x85	316, SS400	316, SS400	316, SS400	316, SS400 M10x60	-
DCH1M12-xx-PP/PA-BN-M-SS/SG	H1	6.35, 9.52, 12.7, 15.9	316, SS400 M10x70	316, SS400	-	316, SS400	-	-
DCH2M12-xx-PP/PA-BN-M-SS/SG	H2	19.0	316, SS400 M10x85	316, SS400	-	316, SS400	-	-
DCH1M12/2-xx-PP/PA-BN-M-SS/SG	H1	6.35, 9.52, 12.7, 15.9	316, SS400 M10x45	316, SS400	316, SS400	316, SS400	316, SS400 M10x53	-
DCH2M12/2-xx-PP/PA-BN-M-SS/SG	H2	19.0	316, SS400 M10x60	316, SS400	316, SS400	316, SS400	316, SS400 M10x68	-
DCH2-T-xx-PP/PA-BN-M-SS/SG	H2-T	9.52, 12.7, 15.8, 19.0, 25.4	316, SS400 M10x85	316, SS400	-	316, SS400	-	-
DCH2-T-xx-PP/PA-BN-M-SS/SG	H2-T	9.52, 12.7, 15.8, 19.0, 25.4	316, SS400 M10x60	316, SS400	316, SS400	316, SS400	316, SS400 M10x68	-
4.4.B.xx	-	9.52, 12.7, 15.9, 19.0, 38.0	316, SS400 M6	316, SS400	316, SS400	316, SS400	316, SS400 M6	316, SS400

Clamp Body

Material	Colour	Max. working temperature
PP (Polypropylene)	Green	-30° to +90° C / -22 to +194 F
PA (Polyamide)		-40° to +120° C / -40 to +248 F

Application/Limitation

The pipe clamp systems of type DCHxx and 4.4.B are type approved for the modular construction of support systems and substructures for piping systems, components and secondary steel construction on board ships and other structures classed by DNV.

The applicable service temperature range for the pipe clamp system is limited by the material of the clamp body.

Type Approval documentation

Tests carried out

Test	Standard
Tensile strength	ASTM D638-22
Elongation at break	ASTM D638-22
Tensile elastic modulus	ASTM D638-22
Flexural modulus of elastic	ASTM D790-17
Rockwell hardness	ASTM D785-23
Deflection temperature under load	ASTM D648-18

Marking of product

For traceability to this type approval, the products are to be marked in accordance to DIN3015.

The clamp must be permanently marked with the nominal size, the diameter d1 and the name or mark of the manufacturer or supplier.

Periodical assessment

For retention of the Type Approval, a DNV Surveyor shall perform periodical assessment after two years (+/- 90 days) and after 3.5 years (+/- 90 days) to verify that the conditions for the Type Approval are complied with. Refer to DNV - CP-0338, Sec.4.

The certificate is only valid if required periodical assessments are carried out with satisfactory results. To check the validity of this certificate, please look it up in <https://approvalfinder.dnv.com>

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