

Type Approval Certificate Extension

This is to certify that Certificate No. 86/00060(E7) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER Promat BD Ltd

PLACE OF Unit 20

PRODUCTION Walsall Enterprise Park

Regal Drive Pleck

Walsall, WS2 9HQ United Kingdom (UK)

DESCRIPTION Contoured flanged branch connections and branch outlet fittings.

TYPE Standard connections:-

Weldoflange: ½"-150lb to 12"-2500lb
Nipoflange: ½"-150lb to 2"-2500lb
Reinforced Nipoflange: ½"-150lb to 1½"-1500lb

and 2"-150lb to 2"-600lb

Weldolet 16"-300lb

Lightweight connections for stainless steel applications: Weldoflange: ½"-150lb to 2"-600lb Nipoflange: ½"-150lb to 2"-600lb Reinforced Nipoflange: ½"-150lb to 2"-600lb Sweepolet ½"-150lb to 2"-600lb

Certificate No. 86/00060(E8)

Issue Date 10 May 2017

Expiry Date 2 June 2022

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Marine & Offshore Lloyd's Register

Lloyd's Register EMEA

Lloyd's Register EMEA 71 Fenchurch Street, London EC3M 4BS

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TYPE (continued) Branch outlet fittings in carbon steel and alloy, stainless, duplex and

super duplex steels:

Branch welding outlet: ½" to 24" Schedule 10S through 80

1/2" to 24" Schedule 160 and XXS

Socket welding outlet: ½" to 4"-3000lb

½" to 2"-6000lb

Threaded outlet: ½" to 4"-3000lb

1/2" to 2"-6000lb

Nipple welding outlet: $\frac{1}{2}$ " to 2"-3000lb

½" to 2"-6000lb

Elbow and lateral butt welding outlet:

 $\frac{1}{2}$ " to $\frac{24}{3000}$ sch STD and XS

1/2" to 24"-6000lb Sch 160 and XXS

Elbow and lateral socket welding outlet:

½" to 2"-3000lb

½" to 1½"-6000lb

Elbow and lateral threaded outlet:

½" to 2"-3000lb

½" to 1½"-6000lb

Elboflanges: 150lb to 2500lb

Schedule 10S to XXS

Schedule 10S to XXS

Latroflanges: 150lb to 2500lb

Prohub: \(\frac{1}{2}\)" to 8" (pressure ratings as detailed in

ABB Vetco Gray Catalogue reference

GLOC-105/1-96/10M dated 1996).

DESIGN CODESArea replacement compensation for reinforcement of welded branch

connections is to comply with the following design codes, as appropriate, subject to the conditions under which they are used:

ASME B16.5: 2009; ASME B31.1: 2009; ASME B31.3: 2010; ASME B31.4: 2009; ASME B31.8: 2010; BS EN 1759-1:2004; ASME VIII Div 1: 2010; PD 5500: 2011;

MSS SP-97-2006

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Sheet 2 of 3 M.H.M.Rila Southampton Technical Support Office

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DESIGN CODES (Cont.) Hydrostatic pressure tests and burst pressure tests are to comply with

the following design codes subject to their proposed use:

ASME B16.9: 2007 and BS1640: 1968

APPLICATION Marine, offshore and onshore oil and gas piping applications,

Petrochemical Plant, Power Generation and General Process Plant,

Pressure Vessels and associated equipment.

OTHER CONDITIONS The design pressure of the branch outlet fittings must not exceed the

rating of the standard socket weld or screw thread.

"This Certificate is not valid for equipment, the design, ratings or operating parameters of which have been varied from the specimen tested. The manufacturer should notify Lloyd's Register EMEA of any modification or changes to the equipment in order to obtain a valid certificate."

The attached Design Appraisal Document No. 86/00060(E8) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 86/00060(E7) to which this extension should be attached.

Certificate No. 86/00060(E8)

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