

Type Approval Certificate Extension

This is to certify that Certificate No. 86/00060(E6) for the undernoted products is extended and renumbered as shown.

This certificate is issued to:

PRODUCER	Promat BD Ltd
PLACE OF PRODUCTION	Unit 20 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 ¾" Sch 5 to 24" Sch XXS

Certificate No.	86/00060(E7)
Issue Date	22 August 2012
Expiry Date	2 June 2017
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London Design Support Office
Lloyd's Register EMEA

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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
½" to 24" Schedule 160 and XXS

Socket welding outlet: ½" to 4"-3000lb
½" to 2"-6000lb

Threaded outlet: ½" to 4"-3000lb
½" to 2"-6000lb

Nipple welding outlet: ½" to 2"-3000lb
½" to 2"-6000lb

Elbow and lateral butt welding outlet:
½" to 24"-3000lb Sch STD and XS
½" 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

Latroflanges: 150lb to 2500lb
Schedule 10S to XXS

Prohub: ½" to 8" (pressure ratings as detailed in ABB Vetco Gray Catalogue reference GLOC-105/1-96/10M dated 1996).

DESIGN CODES

Area 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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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(E7) and its supplementary Type Approval Terms and Conditions form part of this Certificate.

All other details remain as the previous Certificate No. 86/00060(E6) to which this extension should be attached.

Certificate No.	86/00060(E7)
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Sheet	3 of 3



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Issue number 1

DESIGN APPRAISAL DOCUMENT

Date 22 August 2012	Quote this reference on all future communications LDSS/TA/W03066327/PFM/WP11598285
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LLOYD'S REGISTER TYPE APPROVAL SYSTEM, 2002.
Issued to: PROMAT BD LTD
for: CONTOURED FLANGED BRANCH CONNECTIONS
AND BRANCH OUTLET FITTINGS
TYPE APPROVAL CERTIFICATE No. 86/00060(E7)

The undernoted documents have been reviewed for compliance with the requirements of the Lloyd's Register Type Approval System, 2002 and this Design Appraisal Document forms part of the Certificate.

APPROVAL DOCUMENTATION

Request form	18-Jan-2012
LR Coventry visit report, ref. COV 1219786	05-Jul-2012

Supplementary Type Approval Terms and Conditions

Type Approval certifies that a representative sample of the product(s) referred to herein has/have been found to meet the applicable design criteria for the use specified herein. It does not mean or imply approval for any other use, nor approval of any product(s) designed or manufactured otherwise than in strict conformity with the said representative sample.

Type Approval is based on the understanding that the manufacturer's recommendations and instructions and any relevant requirements of the Rules and Regulations are complied with.

Type Approval does not eliminate the need for normal inspection and survey procedures required by the Rules and Regulations.

Lloyd's Register EMEA reserves the right to cancel or withdraw this Type Approval Certificate in accordance with the Lloyd's Register Type Approval System Procedure.

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Type Approval,
London Design Support Office
Lloyd's Register EMEA/London Office
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PFM

Part 1A
Subject: Pipe and Pipe Couplings
Product: Reinforced Branch Connection (Part 1A)

Producer/Licence No.		Description of Product			Cert. No.
Type	Details of Approval	Application	Remarks		
<p>Promat BD Ltd, Unit 20, Walsall Enterprise Park, Regal Drive, Pleck, Walsall, WS2 9HQ, United Kingdom (UK).</p>	<p>Contoured flanged branch connectors and branch outlet fittings</p>	<p>Flanges are designed for pressure-temperature ratings in accordance with ANSI B.16.5-2009; Classes 150, 300, 600, 900, 1500 and 2500.</p> <p>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</p> <p>Lightweight connections for stainless steel applications:- Weldoflange: ½"-150lb to 2"-600lb Nipoflange Reinforced: ½"-150lb to 2"-600lb Nipoflange: ½"-150lb to 2"-600lb Sweepolet: ¾" SCH5 to 24" SCH XXS</p> <p>Branch outlet fittings in carbon steel and alloys, stainless steel, duplex and super duplex steels: Branch welding outlet: ½" to 24" Schedule 10S through 80 ½" to 24" Schedule 160 and XXS Socket welding outlet: ½" to 4" - 3000 lb ½" to 2" - 6000 lb Threaded outlet: ½" to 4" - 3000 lb ½" to 2" - 6000 lb Nipple welding outlet: ½" to 2" - 3000 lb ½" to 2" - 6000 lb Elbow and lateral butt welding outlet: ½" to 24" - 3000 lb Schedule STD and XS ½" to 24" - 6000 lb Schedule 160 and XXS Elbow and lateral socket welding outlet: ½" to 2" - 3000 lb ½" to 1½" - 6000 lb Elbow and lateral threaded outlet: ½" to 2" - 3000 lb ½" to 1½" - 6000 lb</p>	<p>Marine, offshore and onshore oil and gas piping applications, petrochemical plant, power generation and general process plant, pressure vessels and associated equipment.</p>	<p>Expires: 2 June 2017</p> <p>Area 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.</p> <p>ASME B16.5: 2003 ASME B31.1: 2004; ASME B31.3: 2006; ASME B31.4: 2006; ASME B31.8: 2003; ASME VIII Div 1: 2004; BS EN 1759-1:2004; PD 5500: 2006; MSS SP-97-2006</p> <p>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</p>	<p>86/00060(E7)</p>

Part 1A
Subject: Pipe and Pipe Couplings
Product: Reinforced Branch Connection (Part 1A)

Producer/Licence No.	Description of Product			Remarks	Cert. No.
	Type	Details of Approval	Application		
		Elboflanges: 150 lb to 2500 lb Schedule 10S to XXS 150 lb to 2500 lb Schedule 10S to XXS 1/2" to 8" (Pressure ratings detailed in client catalogue)			

