



Type Approval Certificate

This is to certify that the undernoted product(s) has/have been tested with satisfactory results in accordance with the relevant requirements of the Lloyd's Register Type Approval System.

Manufacturer	PROMAT BD LTD
Address	Unit 20, Walsall Enterprise Park, Regal Drive, Walsall, WS2 9HQ, United Kingdom
Place of Production	PROMAT BD LTD Unit 20, Walsall Enterprise Park, Regal Drive, Walsall, WS2 9HQ, United Kingdom
Place of Production	Promat BD Limited Middle East Division, P.O.Box 18370, Plot No S20131 & S20132, South 2, Jebel Ali Free Zone, Dubai, United Arab Emirates
Type	Contoured flanged branch connections and branch outlet fittings
Description	Weldoflange, Nipoflange, Reinforced Nipoflange, Weldolet, Elboflange, Latroflange, Sweepolet, Prohub (See Appendix)
Application	Marine, offshore and onshore oil and gas piping applications, Petrochemical Plant, Power Generation and General Process Plant, Pressure Vessels and associated equipment.
Specified Standard	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:

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ASME B16.5: 2009;
ASME B31.3: 2010;
ASME B31.8: 2010;
ASME VIII Div 1: 2010;
MSS SP-97-2006

ASME B31.1: 2009;
ASME B31.4: 2009;
BS EN 1759-1:2004;
PD 5500: 2011;

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

Ratings Please refer to the Appendix.

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.

Previous Version: LR2374311TA

The Design Appraisal Document UKITSO/ENG/ASH/WP52098178 and its supplementary Type Approval Terms and Conditions form part of this Certificate.



ATTACHMENT TO CERTIFICATE OF TYPE APPROVAL No. LR2374311TA

Appendix

TYPE

Standard connections:

Weldo-flange:	½"-150lb to 12"-2500lb
Nipo-flange:	½"-150lb to 2"-2500lb
Reinforced Nipo-flange:	½"-150lb to 1½"-1500lb and 2"-150lb to 2"-600lb

Lightweight connections for stainless steel applications:

Weldo-flange:	½"-150lb to 2"-600lb
Nipo-flange:	½"-150lb to 2"-600lb
Reinforced Nipo-flange:	½"-150lb to 2"-600lb
Sweepolet	¾" Sch 5 to 24" Sch XXS

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



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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).