Contoured Bodied Flange Branch Fittings
Buttweld Branch Outlets
Forged Steel Flanges & Fittings
Specialised Piping Products
Anchor Flanges, Bleed Rings, Swivel Flanges, Orifice Assemblies in various material grade

Engineering Design, Manufacturing and Trading as part of the Marla Group of Companies Servicing and Supplying the Worldwide Oil, Gas and Petrochemical Industries

Promat Products are Distributed in the Following Countries:
- Australia
- Bahrain
- Belgium
- Canada
- Denmark
- Egypt
- France
- Indonesia
- Kuwait
- Malaysia
- Netherlands
- New Zealand
- Norway
- Oman
- Qatar
- Saudi Arabia
- Singapore
- Thailand
- United Arab Emirates
- USA
- India
- United Kingdom
- Kazakhstan
- Russia

www.promatbd.com
INTRODUCTION

Due to a major investment within the Marla Group of companies some years ago, an amalgamation of Promat Engineering and Burton Delingpole Flanges and Fittings took place. This resulted in the opening of a multi million pound manufacturing facility, Promat BD Limited, which has been developed in Walsall, UK and to produce the full range of Promat products and Burton Delingpole flanges.

Promat and Burton Delingpole are internationally known, with over 100 years experience (collectively) in the manufacture of flanges and flanged branch fittings including the design and manufacture of specialised piping products as detailed within our technical literature.

Our range of products is produced from quality forgings in all material grades and specifications requested. All products are covered by full technical support, product quality and reliability in addition to the ISO accreditation and Lloyds type approval for Promat Contour Bodied flange branch and standard branch connections.

In addition, Promat BD Limited hold extensive approvals worldwide as a recognised manufacturer with many of the major oil, gas and petrochemical companies.

Promat BD awareness and attentiveness to our clients’ requirements, both on quality and service, is considered paramount in its recognition as a major supplier to the world market for flange products & branch connections.

Promat BD - Contour Bodied Flange Branch Fittings
Promat BD fittings represent a new generation of flanged branch connections - a unique single forging which combines the components of a conventional branch assembly into a single fitting.

• Integrated Flange Branch Fittings
• Integrated Lightweight Flange Branch Fittings
• Integrated Reducing Branch Fittings
• Integrated Sit-In Flange Branch Fittings
• Extended Long Weld Neck Flanges

REDUCED FABRICATION COSTS

As a single fitting, only one weld is required to complete the Promat BD contoured bodied flanged branch connection. This eliminates the need for one, possibly two, extra welds and so reduces the welding time and associated labour, material and N.D.T. inspection costs.

INCREASED STRENGTH AND SAFETY

Manufactured from close tolerance forgings, Promat BD fittings offer substantial advantages over conventional assemblies. As the number of welds are reduced, Promat BD fittings significantly increase the overall strength and safety of the branch connection, one of the most vulnerable points in piping networks.

IMPROVED INTEGRITY

The single, close-tolerance forgings provide a uniform grain flow which increases the inherent integrity of the fitting and overall integrity of the branch connection.

PRODUCTION AND TESTING

Promat BD fittings have been developed by experienced piping engineers using the latest computer-aided design facilities. This combination of practical experience and high technology has produced a range of fittings which will withstand the pressure, vibration, erosion, corrosion and fatigue induced stresses which occur in piping systems.
In addition, Promat BD fittings are easier to install than conventional assemblies, and therefore save on installation costs. In order to ensure that the fittings meet the highest standards of safety, performance and reliability they have undergone a rigorous test program including:

- Destructive testing
- Metallurgical assessment
- Stress analysis
- Finite element analysis
- Stress intensification analysis
- Promat manufacture to and are accredited to BS EN ISO 9001

**CALCULATIONS**

Promat BD can produce area replacement calculations for the range of fittings which comply with the standards of the design codes stated below. If required, full design criteria must be supplied at time of order.

**TECHNICAL DETAILS**

Promat BD contoured bodied flanged branch fittings have Lloyds type approval for the following applications:
- Marine
- Offshore and Onshore Oil and Gas Petrochemical Plant
- Power Generation
- General Process Plant
- Nuclear Industry
- Pressure Vessels and Associated Equipment.

Approval covers the following design codes:
- ANSI B31.1 Power Generation Piping
- ANSI B31.3 Chemical Plant and Petroleum Refinery Piping
- ANSI B31.4 Offshore Piping
- ANSI B31.4 Gas Transmission Pipelines
- ASME VIII. American Pressure Vessel Code
- BS 5500 British Pressure Vessel Code

**REDUCED WELDING VOLUME**

Provided that a full design criteria is supplied at the time of the order, Promat Engineering could reduce the welding volume by up to 75% and avoid over-application of welds, thereby reducing HAZ (heat affected zone) and the possibility of cracking and eventual failure or leakage.

Design Criteria to include:
- Actual Operating Pressure
- Operating Temperature
- Corrosion Allowance
- Wall Thickness
- Material Grade

**PROMAT BD - BUTTWELD BRANCH OUTLETS**

Promat have introduced a full range of buttweld branch outlet fittings to our manufacturing range.

The fittings are carefully certified and offered in all material grades. Included in the range of the branch outlet fittings are the Swept Outlet, Insert Outlet and the Promat Lightweight Outlet.

- Branch Welding Outlet
- Elbow Branch Welding Outlet
- Lateral Branch Welding Outlet
- Swept Radial Outlet
- Branch Vessel Insert Connection

**PROMAT BD - FORGED STEEL FLANGES & FITTINGS.**

Promat BD Limited produces the full range of Burton Delingpole flanges.
- Weld Neck Flange
- Blind Flange
- Slip-On Flange
- Socket Weld Flange
- Threaded Flange
- Lapped Joint Flange
PROMAT BD - SPECIALISED PIPING PRODUCTS

- Pro-(Clamp Type) Hub
- Norsok L-005 Compact Flange
- Vent-Drain Spacer (Plain)
- Vent-Drain Spacer (Bolted)
- Pad Flange
- Bulkhead Raised Face Flange
- SAE Flange
- Swivel Ring Flange
- Anchor Flange
- Orifice Flange
- API Weld Neck
- High Pressure Spool

PROMAT BD - MATERIAL SPECIFICATIONS

Promat BD products are available in the following specification:

MATERIAL
- Carbon Steel
- Stainless Steel
- Duplex
- Super Duplex
- Alloy Steels
- Titanium
- Nickel Alloy Grades
- Hastelloy Grades
- Cunifer
- other materials upon request

MATERIAL SPECIFICATION
- ASTM A105N
- ASTM A350/LF2/LF3
- BS 1505 224 490 LT50N
- ASTM A694 F52/60/65
- AISI 4130
- ASTM A182 F304/L
- ASTM A182 F316/L
- ASTM A182 F321
- ASTM A182 F44
- ASTM A182 F51
- ASTM A182 F53
- ASTM A182 F55
- ASTM A182 F7
- ASTM A182 F9
- ASTM A182 F11
- ASTM A182 F12
- ASTM A182 F22
- ASTM B564

FLANGE FACING TYPE
- Raised Face
- Ring Type Joint
- Flat Face

FLANGE/HUB RATING
- ANSI 150#
- ANSI 300#
- ANSI 600#
- ANSI 900#
- ANSI 1500#
- ANSI 2500#
- API 2000
- API 3000
- API 5000
- API 10000
- API 15000
- API 20000
- BS/DIN Flanges ordered by PN. Rating e.g. BS.PN16
- Pro-(Clamp Type) Hub

BRANCH / RUN PIPE SCHEDULE
- SCH 10S / 10
- SCH 30
- SCH 40S
- SCH 80
- SCH 120
- SCH XXS
- SCH 10
- SCH 20
- SCH 40/STD
- SCH 80S/XS
- SCH 160
- SCH 100

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Key Personnel:
Vishanth Menezes - Director

Profile:
Engineering, Design, Manufacturing of
forged fitting, flanges and other piping
components for worldwide oil, gas
and petrochemical industries.

1. FLANGES
2. OILFIELD EQPT. SUPPLIES