



CERTIFICATIONS



Certificate of Authority to use the Official API Monogram
License Number: **6A-1094** ORIGINAL

The American Petroleum Institute hereby grants to

SANKALP ENGINEERING & SERVICES PVT. LTD.
Karandi, Chakan-Shikrapur Road, Shirur
Pune, Maharashtra
India

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API Spec 6A** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram should be used in conjunction with this certificate number: **6A-1094**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following products: **Flanged Connectors, Threaded Connectors at PSL 1 through 3, Ring Joint Gaskets (PSL not applicable)**

QMS Exclusions: Section 7.3, Design and Development

Effective Date: **OCTOBER 3, 2012**
Expiration Date: **OCTOBER 18, 2013**

To verify the authenticity of this license, go to www.api.org/compositelist.

John M. Medici
Director of Global Industry Services



Certificate of Authority to use the Official API Monogram
License Number: **7-1-0765** ORIGINAL

The American Petroleum Institute hereby grants to

SANKALP ENGINEERING & SERVICES PVT. LTD.
Karandi, Chakan-Shikrapur Road, Shirur
Pune, Maharashtra
India

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API Spec 7-1** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram should be used in conjunction with this certificate number: **7-1-0765**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following product: **Drill Stem Subs**

QMS Exclusions: Section 7.3, Design and Development

Effective Date: **OCTOBER 3, 2012**
Expiration Date: **OCTOBER 18, 2013**

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John M. Medici
Director of Global Industry Services



Certificate of Authority to use the Official API Monogram
License Number: **5CT-1176** ORIGINAL

The American Petroleum Institute hereby grants to

SANKALP ENGINEERING & SERVICES PVT. LTD.
Karandi, Chakan-Shikrapur Road, Shirur
Pune, Maharashtra
India

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API Spec 5CT** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram should be used in conjunction with this certificate number: **5CT-1176**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following: **Manufacturer of Casing or Tubing Pup Joints at Groups 1, 2 and 3, H40/PSL 1, J55/PSL 2, K55/PSL 2, N80/PSL 2, N80/Q/PSL 2, L80/PSL 2, P110/PSL 2, Manufacturer of Casing or Tubing Couplings at Groups 1, 2 and 3, H40/PSL 1, J55/PSL 2, K55/PSL 2, N80/PSL 2, N80/Q/PSL 2, L80/PSL 2, P110/PSL 2, Manufacturer of Accessories at Groups 1, 2 and 3, H40/PSL 1, J55/PSL 2, K55/PSL 2, N80/PSL 2, N80/Q/PSL 2, L80/PSL 2, P110/PSL 2, Threader**

QMS Exclusions: Section 7.3, Design and Development

Effective Date: **OCTOBER 3, 2012**
Expiration Date: **OCTOBER 18, 2013**

To verify the authenticity of this license, go to www.api.org/compositelist.

John M. Medici
Director of Global Industry Services



Certificate of Authority to use the Official API Monogram
License Number: **5DP-0029** ORIGINAL

The American Petroleum Institute hereby grants to

SANKALP ENGINEERING & SERVICES PVT. LTD.
Karandi, Chakan-Shikrapur Road, Shirur
Pune, Maharashtra
India

the right to use the Official API Monogram® on manufactured products under the conditions in the official publications of the American Petroleum Institute entitled API Spec Q1® and **API Spec 5DP** and in accordance with the provisions of the License Agreement.

In all cases where the Official API Monogram is applied, the API Monogram should be used in conjunction with this certificate number: **5DP-0029**

The American Petroleum Institute reserves the right to revoke this authorization to use the Official API Monogram for any reason satisfactory to the Board of Directors of the American Petroleum Institute.

The scope of this license includes the following product: **Tool Joint: PSL 3**

QMS Exclusions: Section 7.3, Design and Development

Effective Date: **OCTOBER 3, 2012**
Expiration Date: **OCTOBER 18, 2013**

To verify the authenticity of this license, go to www.api.org/compositelist.

John M. Medici
Director of Global Industry Services



CERTIFICATE

This is to certify that

Sankalp Engineering & Services Pvt.Ltd.
Gat No 103/1 & 2, Karandi
Chakan-Shikrapur Road,
Tal Shirur, Pune - 412 208
Maharashtra,
INDIA

has implemented and maintains an **Environmental Management System**

Scope:
The Environmental Management System of Sankalp Forgings Pvt. Ltd. associated with the Manufacture of Forgings Closed Die & Open Die Forgings, Machining of Forging & Tubing Components for Oil & Gas and Energy Industries located at Pune, Maharashtra, India.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 14001 : 2004

Certificate registration no. 20040404-UM
Date of original certification 2011-09-17
Date of revision 2012-10-19
Date of certification 2011-09-17
Valid until 2014-09-18

UL DQS Inc.
James R. Fox
Senior Vice President



Accredited Body UL DQS Inc., 110 West Lake Drive Road, Suite 540, Buffalo Grove, IL 60089 USA



CERTIFICATE

This is to certify that

Sankalp Engineering & Services Pvt.Ltd.
Gat No 103/1 & 2, Karandi
Chakan-Shikrapur Road,
Tal Shirur, Pune - 412 208
Maharashtra,
INDIA

has implemented and maintains an **Occupational Health and Safety Management System**

Scope:
The Occupational Health and Safety Management System of Sankalp Forgings Pvt. Ltd. associated with the Manufacture of Forgings Closed Die & Open Die Forgings, Machining of Forging & Tubing Components for Oil & Gas and Energy Industries located at Pune, Maharashtra, India to the requirements of OHSAS 18001 : 2007 standard

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

BS OHSAS 18001 : 2007

Certificate registration no. 20040504-BSDCH
Date of original certification 2011-09-17
Date of revision 2012-10-19
Date of certification 2011-09-17
Valid until 2014-09-19

UL DQS Inc.
James R. Fox
Senior Vice President



Accredited Body UL DQS Inc., 110 West Lake Drive Road, Suite 540, Buffalo Grove, IL 60089 USA



CERTIFICATE

This is to certify that

Sankalp Engineering & Services Pvt.Ltd.
Gat No 103/1 & 2, Karandi
Chakan-Shikrapur Road,
Tal Shirur, Pune - 412 208
Maharashtra,
INDIA

has implemented and maintains a **Quality Management System**

Scope:
Manufacture of Forgings (Closed die and open die forgings), machining of forged components and tubular products for Oil and Heavy engineering industries.

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 9001 : 2008

Certificate registration no. 20040504-QM88
Date of original certification 2010-07-20
Date of revision 2012-10-19
Date of certification 2010-07-20
Valid until 2013-07-19

DQS UK Ltd
James R. Fox
Senior Vice President



Accredited Body DQS UK Ltd, 110 West Lake Drive Road, Suite 540, Buffalo Grove, IL 60089 USA



DNV BUSINESS ASSURANCE

MATERIAL MANUFACTURE CERTIFICATE

Certificate No. **2230-2012-CE-IND-DNV**
This certificate consists of 2 pages
This is to verify that

Sankalp Engineering & Services Private Limited
Gat No.: 109/31 2, Chakan Shikrapur Road, Karandi, Tal. Shirur, Dist: Pune - 412 208, India

for

Forgings

has implemented and is maintaining a certified quality assurance system which has undergone a specific assessment for materials for applications covered by Directive 97/23/EC on Pressure Equipment, and is found to comply with annex 1, section 4.3, for acceptance of Type 3.1 material certificates according to EN 10204:2004.

Further details are given in the following pages

This certificate is valid until **2016-01-22**

Giovanni Corbelli
Technical Director

Renate Grotzala
Management Representative

Place and date
Agrate Brianza, 2013-01-23
for the Notified Body 0496
Det Norske Veritas Italia S.r.l.

Accredited Body DNV GL, 110 West Lake Drive Road, Suite 540, Buffalo Grove, IL 60089 USA

About Sankalp

Incorporated in 1996, Sankalp focused in Oil & Gas Field Components, primarily OCTG, Well Head, Drilling and Down Hole Components. Our Facility is equipped with Integrated Forging, Heat Treatment and Advanced CNC Machine Shop. We have testing facility for Chemical, Mechanical, NDT, Ultra Sonic Testing and Dimensional Inspection. Our products are well established and accepted in all the continents. we have our office and inventory at Houston, USA and Sharjah, UAE.

Sankalp holds global certifications & approvals such as API 5CT, 5DP, 6A, 7-1, ISO 9001:2008, ISO/TS 16949:2009, ISO 14001:2004, BS OHSAS 18001:2007, IBR, and PED (Pressure Equipment Directive, Europe), CRN (Canadian Registration Number) **OB15892.5**. We are in process of acquiring NORSOK Certification.

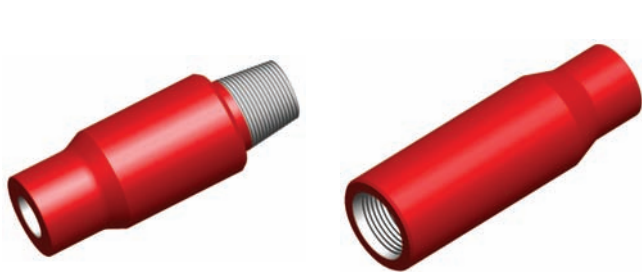
Sankalp is located with in 3 hrs driving way to Mumbai International Sea Port.



TOOL JOINT

MANUFACTURING SPECIFICATIONS:

Sankalp is manufacturing Tool Joints in accordance to API 5DP specifications.
Other sizes and Connections are also available upon request.



Tool Joint Code	DP Nominal Weight (lb/f)	O.D.(IN)	I.D.(IN)	Pin/Box Bevel Diameter(in)
NC 31	10.4	4.125	2.000	3.953
		4.375	1.625	3.953
NC 38	13.3	5.000	2.438	4.578
		5.000	2.125	4.578
NC 46	16.6	6.250	3.000	5.719
		6.250	2.750	5.719
NC 50	19.5	6.625	3.250	6.063
		6.625	2.750	6.063

MATERIAL SPECIFICATIONS:

Tool Joints are manufactured from Alloy Steel AISI 4145 H/4330 in accordance to the API 5DP Specifications.

BLAST JOINT / FLOW COUPLING

MANUFACTURING SPECIFICATIONS:

Blast joints/Flow Couplings are manufactured from seamless mechanical tube in sizes ranging from 2 3/8" to 4 1/2" OD. Sankalp also manufactures customized Blast Joint & Flow Couplings as per customer’s approved drawings.

Tubing Dimensions		Max OD	Min ID
Size (inches)	Weight (lb/ft)	inches	inches
2-3/8	4.6	3.06	1.99
2-7/8	6.5	3.66	2.44
3-1/2	9.3	4.50	2.99
4-1/2	12.8	5.56	3.83



MATERIAL SPECIFICATIONS:

Blast Joints & Flow Couplings are manufactured in following grades H40, J55, K55, N80, L80, C90, C95, T95, P110, Q125 in accordance to the API 5CT Specifications.

DRILL STEM SUBS

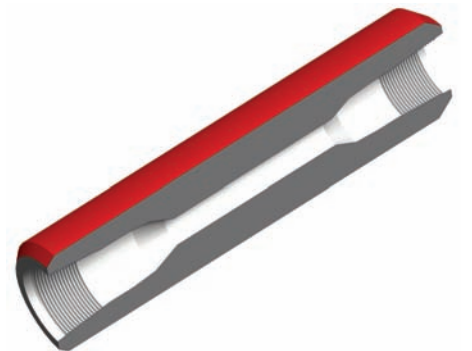
MANUFACTURING SPECIFICATION:

Drill Stem Subs are manufactured according to API 7-1 specifications.

Custom lengths are also available.

There is a wide range of subs available, including:

- Straight Crossover Sub (Box/Pin, Box/Box, Pin/Pin)
- Reduced section Sub (Box/Pin, Box/Box, Pin/Box, Pin/Pin)
- Crossover Sub with Float Bore (Box/Pin, Box/Box, Pin/Box)
- Bit Sub with or without Float Bore (Box/Box)
- Top Drive Saver Sub (Pin/Pin)
- Kelly Saver Sub With or without rubber protector (Box/Pin)
- Lift Sub (18 deg taper or square shoulder) (None/Pin, Box/Pin)
- Swivel Sub
- Throw Away Subs
- Junk Sub



MATERIAL SPECIFICATIONS:

Drill stem subs are manufactured in AISI 4140 / 4145 / 4330 grades.

FLANGES

API FLANGES:

Sankalp manufactures all types of API Flanges in accordance to API 6A Specification, such as 6B or 6BX Weld Neck, Threaded, Blind, Test, and Adapter and Companion Flanges for any size & Pressure rating from 2000psi to 20000 psi. Special Sizes are also manufactured according to customer's requirement.

Studs, Nuts, Ring Joint Gaskets and Grooves are available as per API 6A specifications.

For detail dimensional specifications please visit our website.



ANSI FLANGES:

Sankalp manufactures all types of forged flanges such as Weld Neck, Slip on, Socket Weld, Threaded, Lapped and Blind as per ANSI B16.5 covering sizes from ½" to 24", pressure ratings from Class 150 to Class 2500 and temperature rating - 20°F to 1500°F.

Studs, Nuts and Gaskets are also available.

We also supply Instrument Flanges, Combination Flanges as per requirement.



MATERIAL SPECIFICATIONS:

All Flanges are manufactured in AISI 4130/4140, A105 and A350 LF2 grades.

Sankalp manufacture in other materials grades as per request.

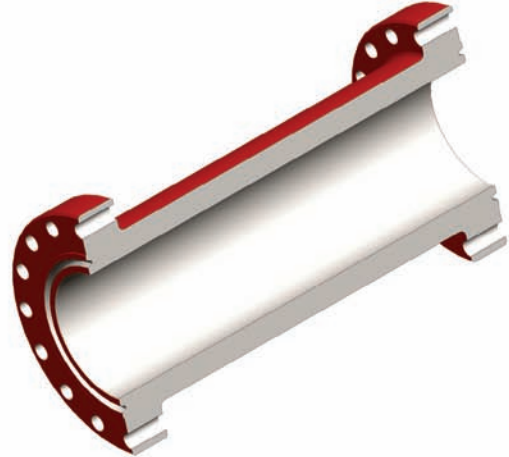
SPACER SPOOL

TECHNICAL SPECIFICATION:

Spacer spool is designed and manufactured in accordance with API 6A standard.

We manufacture Spacer Spools in all sizes and pressure ratings used for oilfield applications.

All Custom sizes available upon the customer request.



MATERIAL SPECIFICATIONS:

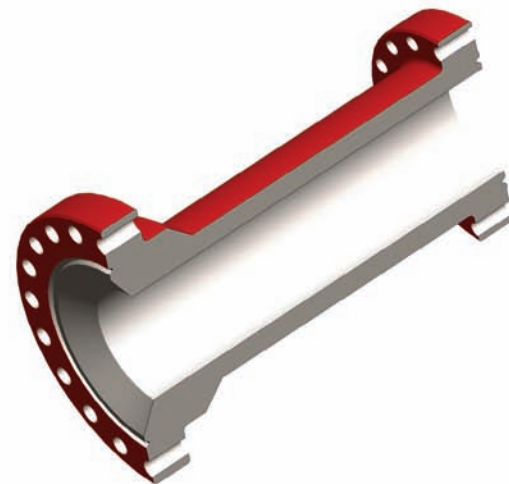
Basic material of construction is AISI 4130/4140. For corrosion resistance, overlays like SS 316L or Inconel 625 can be incorporated to improve product life if required.

ADAPTER SPOOL

TECHNICAL SPECIFICATION:

Adapter spool is designed and manufactured in accordance with API 6A standard.

We manufacture Adapter Spools in all sizes and pressure ratings used for oilfield applications.



MATERIAL SPECIFICATIONS:

Basic material of construction is AISI 4130/4140. For corrosion resistance, overlays like SS 316L or Inconel 625 can be incorporated to improve product life if required.

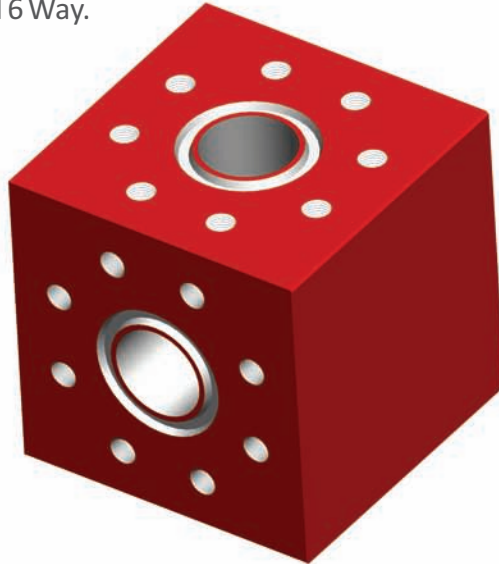
STUDED CROSSES AND TEES

TECHNICAL SPECIFICATION:

We manufacture Studded Crosses and Tees according to the designs and tables in API Spec 6A.

Studded Crosses and Tees are available in 1 13/16" to 4 1/16" at a pressure range of 2000 to 20000 psi.

These are also available in 5 Way and 6 Way.



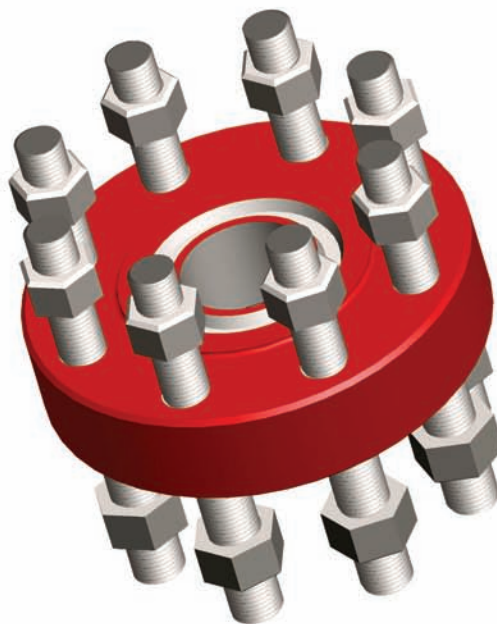
MATERIAL SPECIFICATIONS:

Studded blocks can be supplied in accordance with all API 6A material classes and temperature classes in Product Specification Levels (PSL) 1 to 3.

DOUBLE STUDED ADAPTER

TECHNICAL SPECIFICATION:

Manufactured in all sizes and pressure ratings up to 20000psi in conformance with API 6A.



MATERIAL SPECIFICATIONS:

All DSA's are made up of AISI 4130 & 4140

CHANGE OVER / X-OVER ADAPTERS

MANUFACTURING SPECIFICATION:

Sankalp manufactures Change Over Adapters in various sizes from 1-13/16". Available in flanges pressure rating with integral hammer union ends for pressure range 2000 to 20000 psi.

API adapters are also available in different combinations of end connections up to 5000 psi.

For example 2-3/8 EUE, 5-1/2 LTC.



MATERIAL SPECIFICATIONS:

Sankalp supplies Change Over/API Adapters in AISI 4140/4145H MOD material grades.

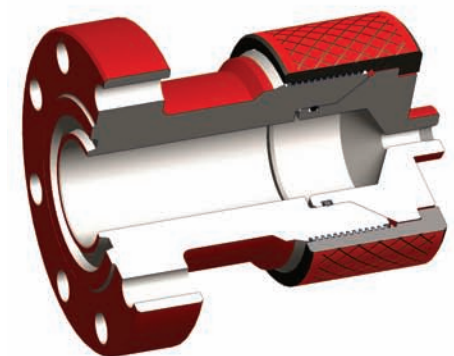
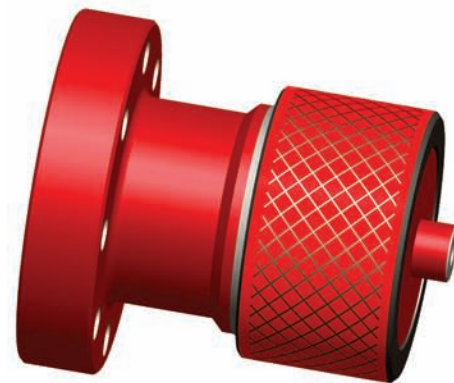
TOP CONNECTOR

MANUFACTURING SPECIFICATION:

Sankalp manufactures various Top Connectors in accordance to the API 6A specifications. Sizes ranging from 2-1/16" to 4-1/16" for pressure range 2000 to 10000 psi.

DIMENSIONAL RANGE:

Nominal Size and WP.	Lift Thread	Bore	Height
2 1/16-2000	2 3/8 API UP TBG	2 21/64	7 1/8
2 9/16-2000	2 7/8 API UP TBG	2 53/64	7 1/16
3 1/8-2000	3 1/2 API UP TBG	3 1/8	9 9/16
3 1/8-3000	3 1/2 API UP TBG	3 1/8	9 13/16
2 1/16-5000	2 3/8 API UP TBG	2 21/64	7 3/4
2 9/16-5000	2 7/8 API UP TBG	2 53/64	8 1/16
3 1/8-5000	3 1/2 API UP TBG	3 1/8	10 1/16
4 1/16-5000	4 1/2 API UP TBG	4 13/64	12 1/8
2 1/16-10000	2 3/8 API UP TBG	2 1/16	8
2 9/16-10000	2 7/8 API UP TBG	2 9/16	7 9/16
3 1/16-10000	3 1/2 API UP TBG	3 1/16	10 5/16
4 1/16-10000	4 1/2 API UP TBG	4 1/16	13 1/8



MATERIAL SPECIFICATIONS:

Sankalp supplies Top Connectors in AISI 4130/AISI 4140 material grades as per requirement.

HAMMER UNION

MANUFACTURING SPECIFICATION:

Hammer Union are available in all nominal pipe sizes from pressure range 1000 to 20000 psi.

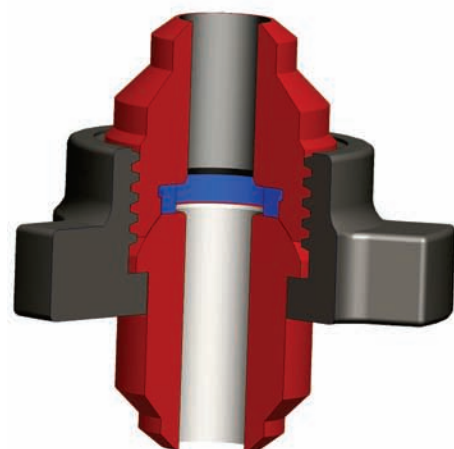
DIMENSIONAL RANGE 1502:

SIZE (INCH)	A	B	C	L	L (Threaded)	Beveled Ends	ACME (TPI)
2	3.18	2	3.9	7.03	6.88	6.3	3 STD
3	4.5	3	4.53	7.67	6.45	5.28	3.5 STD
4	5.75	3.5	6.06	8.55	8.49	10.55	3 MOD

DIMENSIONAL RANGE 602:

SIZE (INCH)	A	B	C	L	L (Threaded)	Butt Welded End	ACME (TPI)
2	3.07	1.5	3.81	5.25	5.28	5.28	3
3	4.25	2.62	4.52	6.22	6.27	5.62	3
4	5.27	3.15	5.04	8.23	8.22	5.67	3

100,200,206,207,211,400,600,1002,1003,1502,2002,2202 series are also available.



MATERIAL SPECIFICATIONS:

Sankalp supplies Hammer Unions in AISI 4130/AISI 4140 material grades as per requirement.

VALVE COMPONENTS

GATE VALVE

- Valve Body
- Stem
- Gate
- Stem adapter
- Seat Ring
- Bonnet
- Bonnet Cap
- Hand Wheel Bush
- Gland Bush

Sankalp is capable of manufacturing various valve components as per customer approved Drawings & Specifications.



Stem



Bonnet Cap



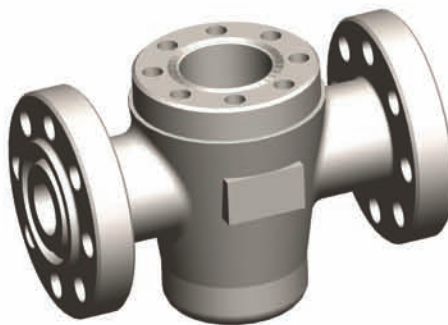
Stem Adapter



Gland Bush



Gate



Valve Body



Seat Ring

VALVE COMPONENTS

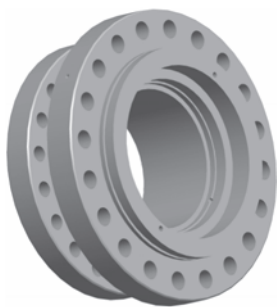
PLUG VALVE

- Plug



BALL VALVE

- Ball
- Trunnion Plate
- Body connector



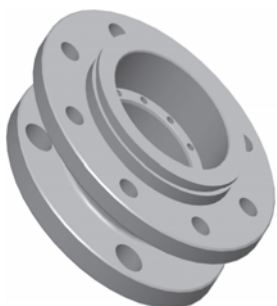
Body connector



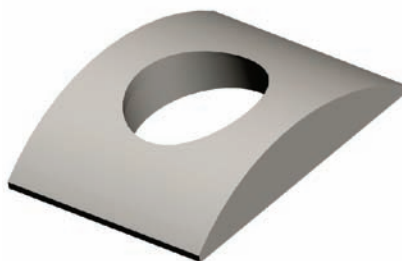
Ball



Upper Body



Body connector



Trunnion Plate

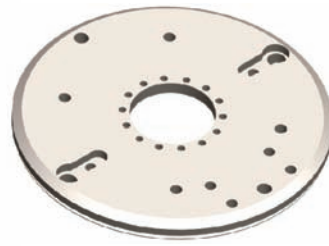


Lower Body

FORGED & MACHINED COMPONENTS



Handling Ring



Top Plate



Plug Valve Body



Plug Valve Body



Bonnet Nut



Top Adapter



Bottom Adapter



Forged Body



Upper Body



Lower Body

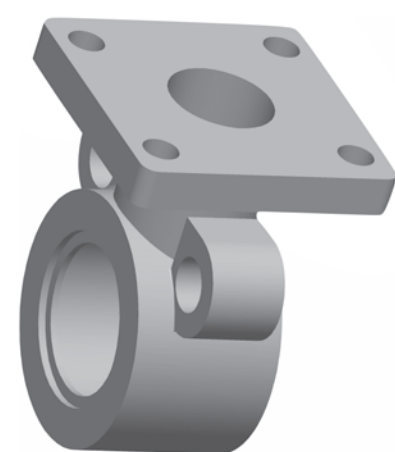
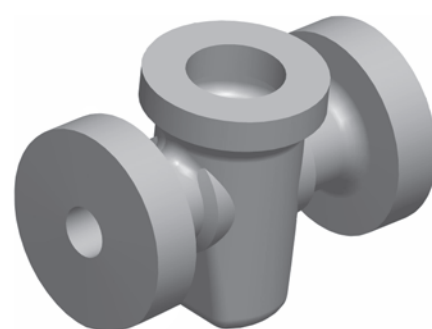
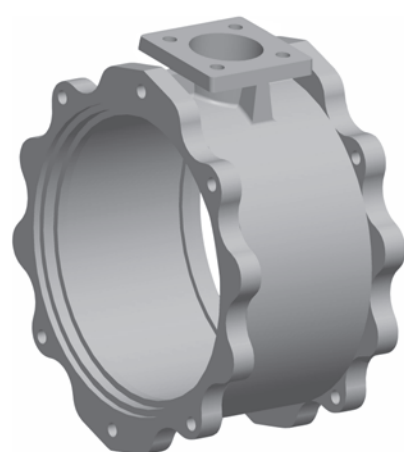
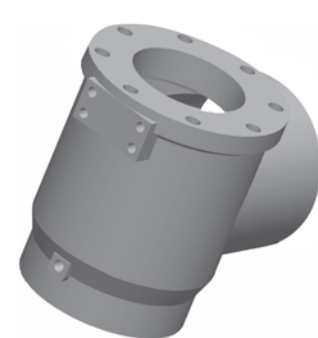
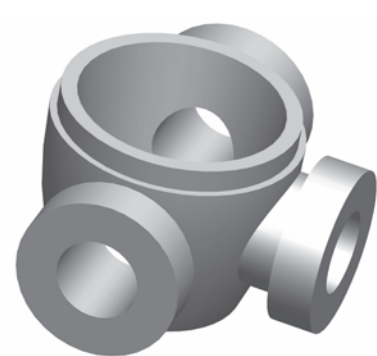


machined Body



Forged Body

CASTING & MACHINED COMPONENTS



MACHINING CAPABILITIES

Sankalp is having state of art manufacturing facility which includes CNC turning , VMC , HMC , CNC VTL ,Oil Country Lathes, Milling machines , Radial Drilling, Grinding &Lapping Machines, Deep hole drilling machines .

CNC Turning

Maximum OD: 800 mm

Maximum Length: 3000 mm

Max length – 3 Meter CNC machining

Rough Machining

Maximum OD: 1000 mm

Maximum Length: 6000 mm

Milling

Width – 800 MM

Length - 1200 MM

Grinding

Max OD- 300 mm

Length – 1000 MM

Deep Hole Drilling & Boring

Maximum Drilling & Boring Length: 3000 mm

Maximum OD: 320 mm

Hollow Bars: 6000 mm

Heat Treatment capacity & capability's

Processes - Normalizing, ISO annealing, hardening &tempering with quench medium of water, oil or Polymer .

Max length – 4 Meter

Continuous hardening tempering furnace – 600 KG /Hr

Boogie type hardening tempering furnace - 10 Ton/Batch

Batch type furnace hardening and tempering -1 Ton/Batch

Pit type furnace with vertical quenching – 300 KG /Batch

Surface Coating

Zinc Phosphating

MnPhosphating

Electro plating – Hexavalent & Trivalent

Galvanizing

Electro nickel Plating - ENP

Xylene Coating

Ever slick Coating

NDT –Non Destructive Testing

MPI - Magnetic Particle Imaging

DP – Die Penetrate

UT – Ultrasonic Testing

RT- Radiography Testing

Metallurgy Testing Lab

LECO spectrometer -- Chemical testing

All mechanical testing as per ASTM Standards.

Carl Zeiss micro tester with imaging capability

Component Measurement & Testing

CMM - lowest tolerance testing - 0.0005"

Profile projector - 50X magnification and screen size of 600 MM

All types of measuring instruments/ Working & Master gauges (PMC, Lone Star) meeting Oil& Gas requirements.

Forgings Capability

Sankalp has Pneumatic, Hydraulic and Belt Drop Hammers.

Open Die Forgings

Maximum Length: 4M

Maximum OD: 40"

Weight Range: 100kg to 3000 Kg

Weight Range: 3000kg to 10,000 Kg – Out sourced

In House Production Capacity/Month: 350 Tons

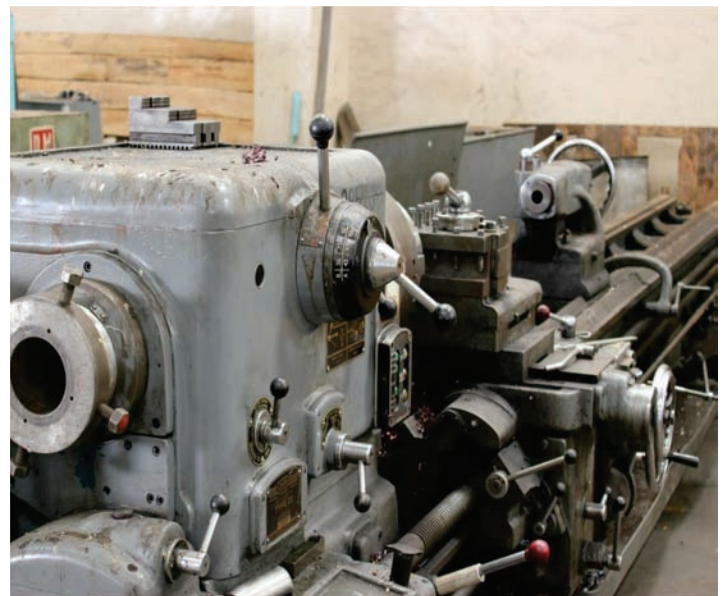
Close Die Forgings

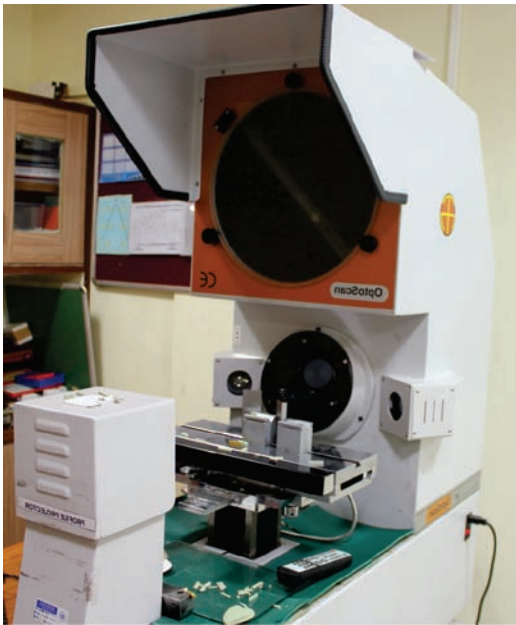
Weight Range: 0.5 Kg to 130 Kg

Weight Range: 130 Kg to 800 Kg -- Out sourced

In House Production Capacity /Month: 500 Tons









● Global Customer Locations

● Office & Warehouse

● Manufacturing Plant



**SANKALP
ENGINEERING & SERVICES PVT. LTD.**

Gat No. 1093/1 & 1093/2,
Chakan - Shikrapur Road, KARANDI,
Shirur, Pune - 412 208, Maharashtra, INDIA

**SANKALP
AMERICAS INC.**

12614, Hempstead Highway
Houston, TX 77092, USA

**SANKALP
MIDDLE EAST FZE.**

Sharjah Hamriya Freezone
U.A.E.

sales@sesglobal.in

