



An ISO 9001-2015 certified company

SV2 ENGINEERING SERVICES

Facilitates your drilling requirements

Quality has no substitute



eiaCI
مركز الإمارات العالمي للاعتماد
Emirates International Accreditation Centre

**Manufacturer and
Exporter of Oil
Field Equipments
and Fittings**

An ISO 9001-2015 certified company



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sales@sv2engineers.com

About the Company

SV2 Engineering Services was instituted in October 2018 with its corporate office in Dehradun Uttarakhand and manufacturing plant in Faridabad Haryana India by Mr. Vishal Gupta who expertises in both sales and technical aspects of oil drilling equipment backed up by his wide and rich experience of more than a decade with the oil industry.

We are an acclaimed ISO 9001:2015 certified manufacturer and exporter of overarching array of oil field equipment. Since our inception, we have been driving hard to provide the best possible products and services to our varied and esteemed customers. The company specializes in its products and strongly believes that quality had no substitute. This motto helps us in our journey of continual refinement to be unsurpassable leaders of the field.

Certification





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Infrastructure

With the unimpaired and state-of-the-art infrastructure, well equipped and advanced machines and equipment, we are committed to imparting economical products and solutions to our customers. The sophisticated machinery enables us to achieve reliable performance and expeditious delivery. An exhaustive list of our machines comprises:

- DOOSAN PUMA 300C
- DOOSAN PUMA 10S
- DOOSAN PUMA 12LC
- DOOSAN LYNX 200
- ACE MICROMATIC LT-20
- Hardness Tester BHN / HRC
- General Purpose Lathe Machines
- Various Special Gauges and complete checking instruments
- D G Sets for power alternative source

Products

- Hammer Unions
- O Rings and Seal Rings
- Adapters and Crossovers
- Integral Fittings
- Pup Joints
- Ring Joint Gaskets
- Hammer Tank Unions
- Nipple and Bull Plugs
- Flanges
- Forging Components
- High Pressure Test Unit



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Hammer Union

- Three lug nuts and self-locking ACME threads provide quick make-up and break-out.
- Colour coded for quick identification, Unique identification for sour gas unions.
- Meet or exceed National Association of Corrosion Engineers standard NACE MR-01-75 and API RP-14E.
- Manufactured from quality steel meeting ASTM and/or AISI standards.
- All unions provide pressure-tight & positive sealing for low-pressure services (500 to 2,000 PSI).
- The spherical surface male sub and angular surface female sub form a metal-to-metal seal, the ball and tangent provide a perfect seal.
- Range from 1/2" to 12" with cold working pressures from 500 to 20,000 PSI.
- Fully interchangeable with most major brands of Hammer Unions.

Quick Reference Chart

Figure Number	Assembly colour key for standard service	Nut Colour	Sub Colour	Pressure Rating (PSI)				Nominal Pipe Size (Inch/Nominal Bore)											
				Standard Service		Sour Gas Service		1	1 1/4	1 1/2	2	2 1/2	3	4	5	6	8	10	12
				Cold Working	Test	Cold Working	Test	25	32	40	50	65	80	100	125	150	200	250	300
100		Black	Yellow	1000	1500	NA	NA				T/B	T/B	T/B	T/B	T/B	T/B	T/B		
200		Blue	Grey	2,000	3,000	2,000	3,000	T/B	T/B	T/B	T/B	T/B	T/B	T/B	T/B	T/B	T/B	T/B	
206		Blue	Grey	2,000	3,000	2,000	3,000	T/B	T/B	T/B	T/B	T/B	T/B	T/B	T/B	T/B	T/B	T/B	
207		Blue	Grey	2,000	3,000	2,000	3,000						T/B	T/B		T/B			
400		Black	Red	4,000	6,000	4,000	6,000				T/B		T/B	T/B	T/B*	T/B*			T/B*
602		Black	Orange	6,000	9,000	6,000	9,000	T/B	T/B	T/B	T/B		T/B	T/B					
1002		Red	Blue	10,000	15,000	7,500	11,250	T/B	T/B	T/B	T/B		T/B	T/B	T/B*	T/B*			
1502		Blue	Red	15,000	22,500	10,000	15,000	T/B		T/B	T/B		T/B	T/B	T/B	T/B			
2002		Green	Grey	20,000	30,000	NA	NA				B		B						
2202		Green	Green	NA	NA	15,000	22,500				B		B	B					

* Indicates different cold working pressures due to their design factors- Difference is shown below:

5", 6", 12" - Fig 400 Cold working Pressure 2500 PSI & Test Pressure 4000 PSI

5", 6" - Fig 1002 Cold working Pressure 7500 PSI & Test Pressure 11250 PSI Standard service

5", 6" - Fig 1002 Cold working Pressure 5000 PSI & Test Pressure 7500 PSI Sour Gas service



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FIG 100

BLACK NUT

YELLOW SUB

- These Hammer Unions are used in low pressure manifold lines for air, water, oil or gas applications

Size	Nut Radius	Length Total	Pressure Rating (PSI)				Weight (Kg)
Inches	Inches	Inches	Standard Service		Sour Gas Service		Approx.
			Cold Working	Test	Cold Working	Test	
2	2.9	3.23	1000	1500	N/A	N/A	2.55
2-1/2	3.6	4.35	1000	1500	N/A	N/A	5.20
3	4	4.59	1000	1500	N/A	N/A	6.26
4	4.7	4.94	1000	1500	N/A	N/A	8.81
5	5.8	6	1000	1500	N/A	N/A	14.75
6	6.5	6.84	1000	1500	N/A	N/A	20.97
8	7.87	7.31	1000	1500	N/A	N/A	31.71



GREY SUB

BLUE NUT

FIG 200

- Recommended for air, water, oil, gas and mud services to 2000 psi. Designed for general service manifolds and lines.
- Available in both threaded and but weld ends
- Metal to metal sealing surface



Size	Nut Radius	Length Total	Pressure Rating (PSI)				Weight (Kg)
Inches	Inches	Inches	Standard Service		Sour Gas Service		Approx.
			Cold Working	Test	Cold Working	Test	
1	1.96	2.65	2,000	3,000	2,000	3,000	0.79
1-1/4	2.17	2.78	2,000	3,000	2,000	3,000	1.08
1-1/2	2.41	2.98	2,000	3,000	2,000	3,000	1.54
2	2.9	3.17	2,000	3,000	2,000	3,000	2.48
2-1/2	3.63	4.13	2,000	3,000	2,000	3,000	4.54
3	4.26	4.58	2,000	3,000	2,000	3,000	6.82
4	5	4.94	2,000	3,000	2,000	3,000	9.51
5	5.5	6.55	2,000	3,000	2,000	3,000	15.09
6	6.43	6.66	2,000	3,000	2,000	3,000	19.28
8	7.43	7.19	2,000	3,000	2,000	3,000	29.04
10	9	9.13	2,000	3,000	2,000	3,000	41.29



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FIG 206

BLUE NUT

GREY SUB

- Features includes O-ring seal in addition to precision machined metal-to-metal seal as found in fig. 200 unions for service to 2000 psi
- Available in both threaded and but weld ends

Size	Nut Radius	Length Total	Pressure Rating (PSI)				Weight (Kg)
Inches	Inches	Inches	Standard Service		Sour Gas Service		Approx.
			Cold Working	Test	Cold Working	Test	
1	1.96	2.65	2,000	3,000	2,000	3,000	0.79
1-1/4	2.17	2.78	2,000	3,000	2,000	3,000	1.08
1-1/2	2.41	2.98	2,000	3,000	2,000	3,000	1.54
2	2.9	3.17	2,000	3,000	2,000	3,000	2.48
2-1/2	3.63	4.13	2,000	3,000	2,000	3,000	4.54
3	4.26	4.58	2,000	3,000	2,000	3,000	6.82
4	5	4.94	2,000	3,000	2,000	3,000	9.51
5	5.5	6.55	2,000	3,000	2,000	3,000	15.09
6	6.43	6.66	2,000	3,000	2,000	3,000	19.28
8	7.43	7.19	2,000	3,000	2,000	3,000	29.04
10	9	9.13	2,000	3,000	2,000	3,000	41.29



GREY SUB

BLUE NUT

FIG 207



- Recommended for air, water, oil, gas and mud services to 2000 psi. Designed for general service manifolds and lines
- Available in both threaded and but weld ends
- Metal to metal sealing surface

Size	Nut Radius	Length Total	Pressure Rating (PSI)				Weight (Kg)
Inches	Inches	Inches	Standard Service		Sour Gas Service		
			Cold Working	Test	Cold Working	Test	Approx.
3	175	3.87	2,000	3,000	2,000	3,000	4.45
4	3.59	4.38	2,000	3,000	2,000	3,000	7.37
6	4.92	5.60	2,000	3,000	2,000	3,000	20.82

FIG 400

BLACK NUT

RED SUB

- Recommended for air, water, oil, gas and mud service. Features a precision ball and cone sealing surface for dependable metal-to-metal pressure seal

Size	Nut Radius	Length Total	Pressure Rating (PSI)				Weight (Kg)
Inches	Inches	Inches	Standard Service		Sour Gas Service		Approx.
			Cold Working	Test	Cold Working	Test	
2	3.45	5.13	4,000	6,000	4,000	6,000	5.65
3	4.17	6.14	4,000	6,000	4,000	6,000	9.13
4	5.04	8.18	4,000	6,000	4,000	6,000	14.17
5	6.70	11.10	2,500	4,000	2,500	4,000	22.50
6	7.70	11.40	2,500	4,000	2,500	4,000	28.80
12	10.26	10.40	2,500	4,000	2,500	4,000	74.82





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FIG 602

BLACK NUT

ORANGE SUB

- Lip type elastomer seal protects metal-to-metal designed to reduce turbulence in the line. Usage mainly in manifold and mud service
- Available with non-pressure thread sealing ends

Size	Nut Radius	Length Total	Pressure Rating (PSI)				Weight (Kg)
Inches	Inches	Inches	Standard Service		Sour Gas Service		Approx.
			Cold Working	Test	Cold Working	Test	
1	2.19	3.53	6,000	9,000	6,000	9,000	1.59
1-1/4	3.08	4.80	6,000	9,000	6,000	9,000	4.09
1-1/2	3.10	4.90	6,000	9,000	6,000	9,000	4.16
2	3.70	5.30	6,000	9,000	6,000	9,000	6.25
3	4.50	6.20	6,000	9,000	6,000	9,000	10.33
4	5.19	8.18	6,000	9,000	6,000	9,000	15.86



BLUE SUB

RED NUT

FIG 1002

- Field replaceable lip type elastomer seal protects secondary metal-to-metal seal



Size	Nut Radius	Length Total	Pressure Rating (PSI)				Weight (Kg)
Inches	Inches	Inches	Standard Service		Sour Gas Service		Approx.
			Cold Working	Test	Cold Working	Test	
1	2.19	3.55	10,000	15,000	7,500	11,250	1.59
1-1/4	3.08	4.88	10,000	15,000	7,500	11,250	4.09
1-1/2	3.10	4.90	10,000	15,000	7,500	11,250	4.16
2	3.70	5.30	10,000	15,000	7,500	11,250	6.25
3	4.50	6.20	10,000	15,000	7,500	11,250	10.22
4	5.20	8.20	10,000	15,000	7,500	11,250	15.84
5	6.26	9.13	7,500	11,250	5,000	7,500	30.20
6	7.00	7.60	7,500	11,250	5,000	7,500	41.81

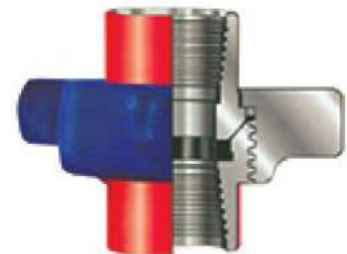
FIG 1502

BLUE NUT

RED SUB

- Field replaceable lip type elastomer seal protects secondary metal-to-metal seal
- Used mainly in choke/kill lines, cementing, fracturing / testing
- Available in threaded, welded, butt weld and non-pressure thread sealing ends

Size	Nut Radius	Length Total	Pressure Rating (PSI)				Weight (Kg)
Inches	Inches	Inches	Standard Service		Sour Gas Service		Approx.
			Cold Working	Test	Cold Working	Test	
1	2.76	4.38	15,000	22,500	10,000	15,000	4.14
1-1/2	3.50	4.50	15,000	22,500	10,000	15,000	7.40
2	4.00	7.00	15,000	22,500	10,000	15,000	9.12
3	4.88	7.64	15,000	22,500	10,000	15,000	15.47
4	6.02	8.57	15,000	22,500	10,000	15,000	32.52
5	6.53	9.00	15,000	22,500	10,000	15,000	43.10
6	7.20	9.75	15,000	22,500	10,000	15,000	65.79





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FIG 2002

GREEN NUT

GREY SUB

- Recommended for standard service to 20,000 PSI NSCWP.
- Available in butt weld end connections only.

Size	Nut Radius	Length Total	Pressure Rating (PSI)				Weight (Kg)
Inches	Inches	Inches	Standard Service		Sour Gas Service		Approx.
			Cold Working	Test	Cold Working	Test	
2	2.75	4.67	20,000	30,000	N/A	N/A	3.72
3	3.50	4.50	20,000	30,000	N/A	N/A	7.40



GREEN SUB

GREEN NUT

FIG 2202



- Field replaceable lip type elastomer seal protects secondary metal-to-metal seal
- Used in sour gas services

Size	Nut Radius	Length Total	Pressure Rating (PSI)				Weight (Kg)
Inches	Inches	Inches	Standard Service		Sour Gas Service		Approx.
			Cold Working	Test	Cold Working	Test	
2	2.75	4.69	N/A	N/A	15,000	22,250	3.72
3	3.50	4.50	N/A	N/A	15,000	22,500	7.44
4	4.00	7.00	N/A	N/A	15,000	22,500	9.75

O Rings & Seal Rings

- O rings and Seal rings are available in nitrile for standard service and in viton for H2S service.





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Adapters and Crossovers

- Adapters and crossovers with custom sizes and lengths in high quality forged construction with threaded, integral and welded hammer lug union end connection.

Reference Chart						
Size	Fig	End	Size	Fig	End	(Inch)
2"	Fig 1502	M	2"	Fig 1502	M	7"
2"	Fig 1502	F	2"	Fig 1502	F	7"
2"	Fig 1502	M	2"	Fig 1502	F	7"
3"	Fig 1502	M	3"	Fig 1502	M	7"
3"	Fig 1502	F	3"	Fig 1502	F	7"
3"	Fig 1502	M	3"	Fig 1502	F	7"
2"	Fig 1502	M	2"	Fig 1502	M	10"
2"	Fig 1502	F	2"	Fig 1502	F	10"
2"	Fig 1502	M	2"	Fig 1502	F	10"
3"	Fig 1502	M	3"	Fig 1502	M	10"
3"	Fig 1502	F	3"	Fig 1502	F	10"
3"	Fig 1502	M	3"	Fig 1502	F	10"



Integral Crossover

Sizes: 2" – 4"

Figures: 1502

Configurations: Various



Integral Union Crossover

Sizes: 1" – 4"

Female x Female

*Other configurations available



Integral Male Union Swage

Sizes: 2" – 4"

Figures: 602, 1002, 1502

Configurations: Various



Integral Female Union Swage

Sizes: 1" – 5-1/2"

Multiple combinations available – call for details



Integral Crossover

Sizes: 1" – 4"

Male x NPT Thread

*Other configurations available



Integral Blast Joint

Sizes: 2"

15,000 PSI NSCP

Integral Fittings

- A full line of robust, high-pressure integral union connections in a broad range of configurations. Manufactured from high strength alloy steel forgings and with full traceability. It can be combined to suit the requirements.

Quick Reference Chart												
Integral Fitting Sizes (Inches)	Hammer Union Figure No.	Long Radius Elbows		Block Elbows			Tees					
		FxM (Kg)	MxM (Kg)	FxM (Kg)	MxM (Kg)	FxF (Kg)	FxFxF (Kg)	FxFxM (Kg)	MxFxF (Kg)	MxFxM (Kg)	MxMxF (Kg)	MxMxM (Kg)
2	602	10.44	12.70	12.70	15.43	10.44	12.25	15.43	15.43	17.70	17.70	19.96
	1002	10.44	12.70	12.70	15.43	10.44	12.25	15.43	15.43	17.70	17.70	19.96
	1502	13.16	15.88	15.43	18.15	12.70	14.97	17.70	17.70	20.42	20.42	23.14
3	602	23.14	26.77	29.04	33.12	24.95	27.22	31.31	31.31	34.94	34.94	39.02
	1002	23.14	26.77	29.04	33.12	24.95	27.22	31.31	31.31	34.94	34.94	39.02
	1502	25.41	31.31	31.76	37.66	25.86	27.68	33.58	33.58	39.02	39.02	45.37





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Pup Joints



1502 Integral Pup Joints

Sizes: 2" and 3"

Lengths: 2 Ft. to 12 Ft.

15,000 PSI CWP

Standard or Sour Service

*derated with sour service

Ring Joint Gaskets



BX Type Ring



R Type Ring



RX Type Ring

Specifications for Ring Joint Gaskets

Material	Max. Hardness		Identification	Temp. Limitation °C	
	Brinell	Rockwell B		Min.	Max.
Soft Iron	90	56	D	-40	540
Low CS	120	68	S	-60	500
304 SS	160	83	304	-250	540
316 SS	160	83	316	-200	815

Hammer Tank Union





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Nipple and Bull Plugs



Swage Nipples

Sizes: 1/8" – 8"
Thickness: STD, XH and XXH
End Connections: TBE,
THD x BEV



Pipe Nipples

Sizes: 1/8" – 4"
Schedules: 40, 80 (XH), XXH



EUE Tubing Nipples

Sizes: 2" 8R x 2" LP
Thickness: STD, XH



Bull Plugs

Sizes: 1/4" – 8"
Thickness: STD, XH, XXH
Threaded
Zinc Plated
Available with Taps



Oil Country Bull Plug

8 Round / EUE
Sizes: 2" and 2-1/2"
Thickness: STD, XH



EUE Tubing Swage

Sizes: 2-1/2" 8R x 2" 8R
Thickness: STD, XH

Flanges



ASTM FLANGES



BLIND FLANGES



WELDING NECK
FLANGES



SLIP ON FLANGES



SOCKET WELD
FLANGES



FORGED STEEL
FLANGES



METAL FLANGES



THREADED FLANGES



LAP JOINT FLANGES



WELDED FLANGES



PLATE FLANGE



SCREWED FLANGES



ASME FLANGE



STEEL LAP
JOINT FLANGES

Forging Components





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High Pressure Test Unit

- High pressure test unit are provided in working pressure ranges from 10000 PSI to 30000 PSI. These units can be used on site for hydro static test of any product BOP Stacks, kill & choke lines and wellheads.

Available Model:

- Portable Trolley Mounted Test Unit



- Skid mounted Test Unit (Without Tank)



- Skid Mounted self-contained test Units (With tanks)

Model Identification: All High-pressure test unit are equipped with a name plate specify the model number. This number contains the mounting arrangement, maximum pressure rating, and type of pressure readout and series identification.

S	10	M	T
Mounting Type Portable type Trolley Mounted test unit S- Skid mounted T-Tank and skid mounted	Pressure Rating 10-10000 PSI 15- 15000 PSI 20- 20000 PSI 30- 30000psi	Pressure Monitoring G- Pressure Only M- Recorder and pressure Gauge E- E Series	Series T- T Series M- M Series

Chart Recorder: Chart recorder used for monitoring of pressure at 10000 PSI to 30000 PSI. They are available in model from 10000 PSI to 30000 PSI With mechanical spring or battery drive and rotation of min. 24 hr. or 8 days. Main feature includes:

- 10000 PSI, 20000 PSI, and 30000 PSI Model
- Accuracy +/- 1.0 % at full Scale
- 12" chart
- Disposable pens.

High Pressure test Hose: Test Hose are available for use in connecting test unit to the equipment being tested.

Main feature Include:

- 10000 PSI to 30000 PSI working Pressure 10 to 100 Ft. length.
- Quick disconnect coupling for fast connection.



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Contact:

Vishal Gupta

☎ +91-9756730333

📞 +91-9756710111

✉ sales@sv2engineers.com

🌐 www.sv2engineers.com



Corporate Office:

Building No. 64/3, Lane No. 7

Turner Road, Clement Town

Dehradun - 248002

Uttarakhand, India