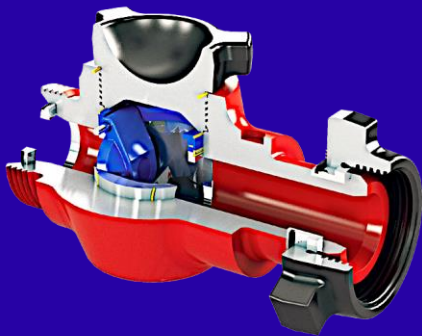




VALVEWORKS FORGE

ISO 9001:2015 | PED

Flowline products & Gate valve components



10+ Years of experience



COMPANY PROFILE

Valveworks Forge is a globally recognized manufacturer and supplier of Closed die forgings & precision machined components. Our company specializes in customizing Components for Oil & Gas Fields, Pipe Fittings & Flanges, Automotive, Defence, Railways and other allied heavy engineering industries. With a 3 Ton & 6 Ton Hammer, we can deliver a wide range of products from 3 kg to 125 kg using pneumatic closed die forging technology. We supply forgings in a wide variety of materials including Mild Steel, Carbon Steel, Alloy steel, and Stainless steel.

VW Forge is spread across 1,40,000 sq. ft. of land, strategically located in Wada industrial area, Mumbai, India.

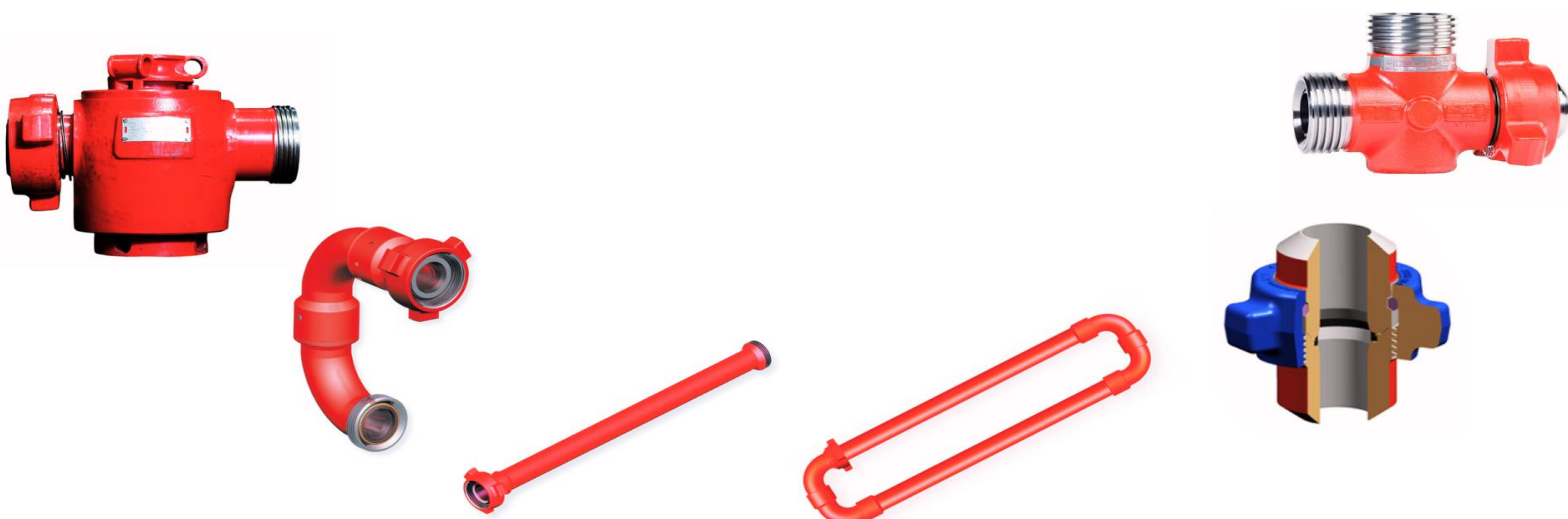
Our plant is vertically integrated having all the requisite facilities for forging, machining, heat treatment, inspection and testing etc with all activities complying with stringent global norms

QUALITY CONTROL

We deliver forgings, oil field products and precision machining components as per API Q1, API 6A & International standards. The plant is “TUV-Rheinland ISO-9001” and a ‘PED’ certified Plant. We Have PCDMS Software with a curve analyzer to do reverse Scanning & Measure curves Manufactured on our Machines.

WHY US

- Annual capacity: 12,000 Tons
- ISO 9001-2015 & PED certified company
- Inhouse design & development.
- Inhouse NDT & Lab testing facility.



Certificate

Quality-Assurance System for Manufacturer of Materials acc. to Directive 2014/68/EU

Certificate no.: 01 2627 IN/M1-240002.00

Name and address
of the manufacturer:

Global Metal Forgings Ltd
23/1,25/1,25/2, Village Vasuri (Khurd)), Opp Blue
Star, Takuka: Wada, Dist. Palghar;
Thane 421312
India

Herewith we certify that the material manufacturer has established and applies a Quality Management System. The system was audited according to the European Directive 2014/68/EU, Annex I, point 4.3, with regard to the materials as listed in the scope of approval.

Tested acc. to
Directive 2014/68/EU:

QM System acc. to EN 764-5, Clause 4.2 and AD
2000-Merkblatt W0

Assessment report no.:

IN/M1-230002 Rev. 0

Area of validity:

Manufacture of Forgings, Fittings, Forged Valves
Component in Carbon Steel, Alloy Steel, Duplex &
Stainless Steel, see Annex to certificate

Manufacturing plant:

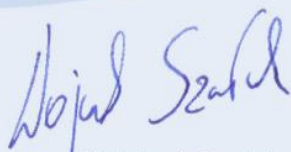
Global Metal Forgings Ltd
23/1,25/1,25/2, Village Vasuri (Khurd)), Opp Blue
Star, Takuka: Wada, Dist. Palghar;
Thane 421312
India

Period of validity:

16.04.2024 – 15.04.2027



Zabrze, 16.04.2024


Wojciech Szalek

TÜV Rheinland Polska Sp. z o.o.
Certification Body for Material Manufacturers
ul. Wolności 347, 41-800 Zabrze, Poland
e-mail: post@pl.tuv.com

T6-MS-0038294 rev. 2

Certificate

Standard **ISO 9001:2015**

Certificate Registr. No. **01 100 2337334**

Certificate Holder: **Valveworks Forge Limited**
Survey No. 23/1, 25/1, 25/2 Village Vasuri (Khurd)
Opp: Blue Star, Taluka : Wada,
Thane-Palghar 421312,
Maharashtra, India.

Scope: Manufacture of Closed Die Forgings and Precision Machined Components.
Design and Manufacture of Blind and Test Flanges, Tees and Crosses, Bull Plugs, Spools (Adapter & Spacer), Valves (Ball Valve, Gate Valve and Plug Valve).

Proof has been furnished by means of an audit that the requirements of ISO 9001:2015 are met.

Validity: The certificate is valid from 2023-06-05 until 2026-06-04.
First certification 2023

2024-08-16


TÜV Rheinland Cert GmbH
Am Grauen Stein · 51105 Köln

www.tuv.com





INFRASTRUCTURE



Cutting shop

Automated Band saws & CNC Cutting from globally renowned suppliers namely Amada & Everising to ensure precision cutting and minimize wastage.

Cutting Capacity:- 5 mm to 550 mm Dia.



Forge shop

3 Ton and 6 Ton Hammer (Pneumatic Closed Die)

200 Ton, 350 Ton & 650 Ton Trimming Presses

Component weight: 3-120Kg

Capacity: 1000 Tons per month



CNC Machining

We have wide range of CNC machines including 5-Axis CNC machine centres, Vertical Machining Centre, CMM etc, which machines components being supplied to Aerospace Industry.



INFRASTRUCTURE



Dies & Tooling shop

In-house die shop enables the machining of Die block holders & inserts, which reduces lead Time and ensures uninterrupted production. The Die Shop is equipped with Machines such as Country wide Lathes, Universal Borer, Milling, Radial Drills etc.



Heat treatment & Shot blasting

Oil fired continuous Hardening & Tempering Furnaces

Capacity of 700 Kg/hr

Shot Blasting Machines of Tumbast type & Swing Table Type (capacity of Dia 72 Inches)



In-house inspection

In-house facility to check the hardness of heat-treated forgings as well as finish components on the scale of BHN and HRB. NDE testing facilities like UT, MPI, LPT are available with written practice for acceptance criteria which is approved by the ASNT Level-III inspector.



INFRASTRUCTURE



In-house lab testing

We have an in-house lab testing facility to check the mechanical properties of components, we have a UTS machine for tensile testing and an impact testing machine for Charpy impact testing.



Pressure testing

2 nos. Pressure Testing Machines from Maximator make, which can test up to 35000 PSI.



Painting booth

Paint booth setup with trained Operator for all types of components



INDUCTION HEAT TREATMENT

600 Kw billet heater





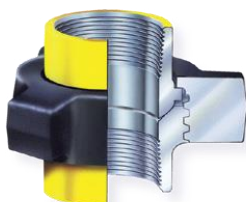
HAMMER UNIONS



Available in 1 to 12-inch nominal pipe sizes with cold working pressures up to 20,000 psi, VW Forge unions are manufactured using the finest raw materials, tooling procedures, and heat-treating techniques available. Materials meet ASME and AISI standards. Each union is carefully inspected to ensure long, dependable service in the most extreme conditions

FIGURE NUMBER	ASSEMBLY KEY	PRESSURE RATING					NOMINAL PIPE SIZES											
		STANDARD		SOURCE SERVICE		IN	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6	8	10	12
		COLD WORKING	TEST	COLD WORKING	TEST	MM	25	30	40	50	65	80	100	125	150	200	250	300
40		400	600	400	600					X								
50		500	750	NA	NA		X	X					X	X				
100		1000	1500	NA	NA					X	X	X	X	X	X	X		
200		2000	3000	2000	3000		X	X	X	X	X	X	X	X	X	X	X	
206		2000	3000	2000	3000		X	X	X	X	X	X	X	X	X	X	X	
207		2000	3000	2000	3000							X	X		X			
211		2000	3000	NA	NA					X		X						
300		2000	3000	NA	NA		X	X		X	X							
400		4000	6000	4000	6000					X		X	X	X	X	X		X
602		6000	9000	6000	9000		X	X	X	X		X	X					
1002		10000	15000	7500	11250		X	X	X	X		X	X	X	X			
1003		10000	15000	7500	11250					X		X	X	X				
1004		10000	15000	7500	11250								X	X				
1502		15000	22500	10000	15000		X		X	X		X	X	X	X			
2002		20000	30000	NA	NA					X		X						
2202		NA	NA	15000	22500					X		X	X					
6666		6000	9000	NA	NA				X	X								

Figure 40



TO

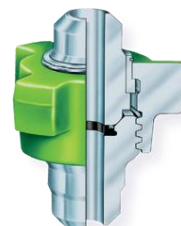
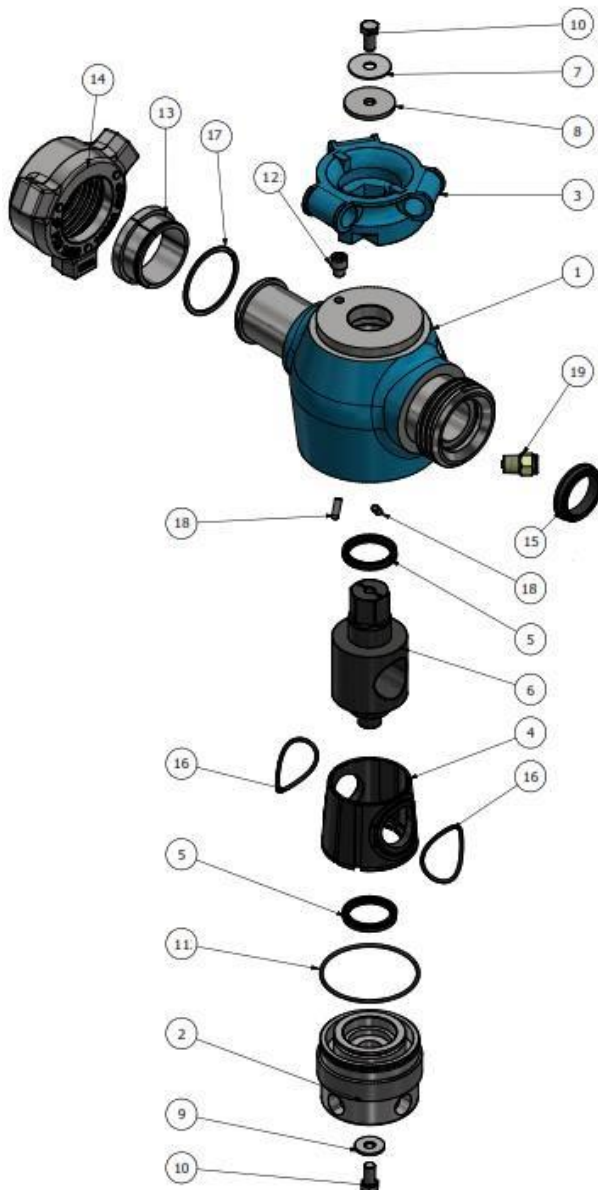


Figure 6666



PLUG VALVES

- ✓ Forged Steel Body
- ✓ Easy operation and Maintenance
- ✓ Size 1" to 3"
- ✓ Bottom Entry design, Easy Maintenance
- ✓ Suitable for variety of high-pressure applications such as fracturing, cementing, acidizing and etc.
- ✓ Reliable Performance at high working pressure



Description	Working Pressure	
	Std. Service	Sour Service
1"X2" Fig 1502	15,000 PSI	10,000 PSI
2"X2" Fig 1502	15,000 PSI	10,000 PSI
3"X3" Fig 1502	15,000 PSI	10,000 PSI

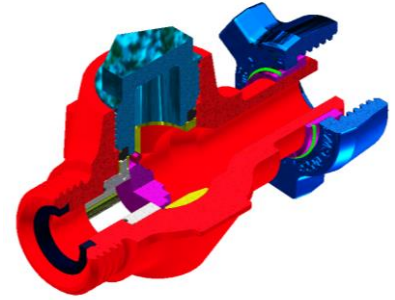
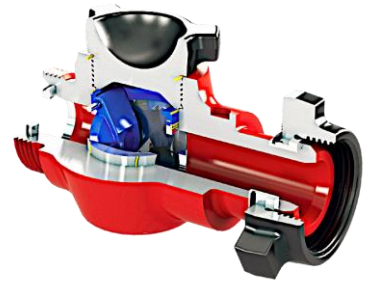
Plug Valve Part List		
Item	Qty.	Description
1	1	Body
2	1	Bonnet
3	1	Handle Actuator
4	1	Metal Seat
5	2	Plug Seal
6	1	Plug
7	1	Washer
8	1	Washer
9	1	Washer
10	2	Hex Bolt
11	1	O-Ring
12	1	Allen Bolt
13	1	Segmented Ring
14	1	Nut
15	1	Seal Ring
16	2	O-Ring
17	1	Retaining Ring
18	2	Roll Pin
19	1	Grease Fitting

Plug Valve Repair Kit Part list		
Item	Qty.	Description
4	1	Metal Seat
5	2	Plug Seal
6	1	Plug
11	1	O-Ring
16	2	O-Ring



CHECK VALVES

VW Forge has redesigned the top entry flapper type check valve to provide improved structural support and erosion tolerance, including added resistance to corrosive chemicals. Top entry check Valve eliminates the need for special tools and reduces non-productive time which saves you time and money



Recommended service:

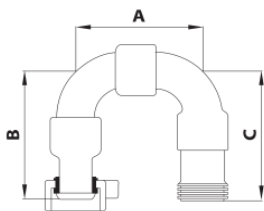
High-pressure well-servicing lines, fracturing lines, testing lines, cementing and circulating lines, and other well service and stimulation applications

Nominal Size	CWP	Service	End connection
2"	15,000	Standard	1502 MxF
	10,000	Sour Gas	1502 MxF
3"	15,000	Standard	1502 MxF
	10,000	Sour Gas	1502 MxF
	6,000	Standard	602 MxF
	6,000	Sour Gas	602 MxF
4"	15,000	Standard	1502 MxF
	10,000	Sour Gas	1002 MxF
	6,000	Standard	602 MxF

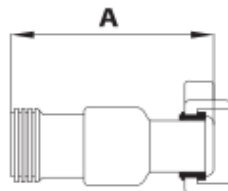


SWIVEL JOINTS

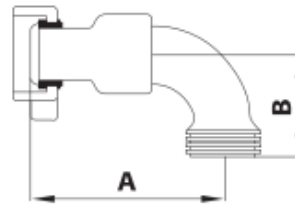
Swivel joints are designed for standard and sour gas services. These world proven fittings come in 2" and 3" sizes and can handle pressure up to 15000 PSI. These styles can be combined in an unlimited variety of ways to suit practically any installation. Available end connections are threaded, beveled for welding, or flanged. .



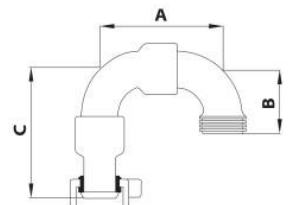
STYLE 10 MXF



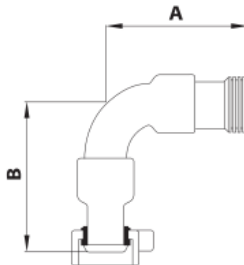
STYLE 20 MXF



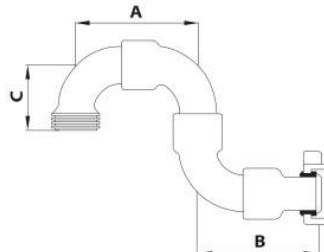
STYLE 30 MXF



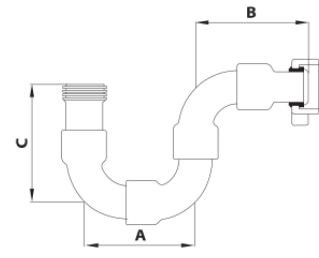
STYLE 50 MXF



STYLE 60 MXF



STYLE 80 MXF



STYLE 100 MXF

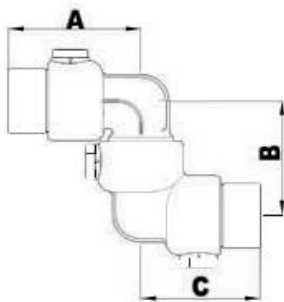
Style	End Connection	2"			3"		
		A	B	C	A	B	C
10	MxF	278.13	278.13	278.13	416.56	365.76	365.76
	MxM	278.13	278.13	278.13	416.56	365.76	365.76
20	MxF	278.13	-	-	314.96	-	-
30	MxF	278.13	139.7	-	365.76	200.66	-
50	MxF	278.13	139.7	278.13	416.56	200.66	365.76
60	MxF	278.13	-	-	365.76	365.76	-
80	MxF	278.13	139.7	278.13	416.56	365.76	365.76
100	MxF	278.13	278.13	275.84	416.56	365.76	365.76

All Dimension are in mm.

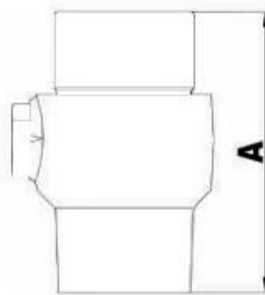


SWIVEL JOINTS / SHORT RADIUS

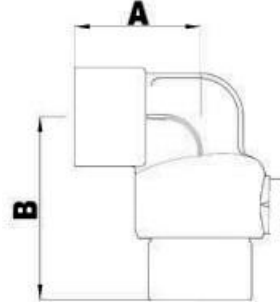
- ✓ Forged Alloy Steel Body with Heat Treatment.
- ✓ Size Available in nominal size $\frac{3}{4}$ ", 1", 1 $\frac{1}{4}$ ", 1 $\frac{1}{2}$ ", 2" & 3"
- ✓ Standard & H2S Service is used up to 6,000psi and tested at 9,000psi
- ✓ Suitable for High Pressure Application - Fracturing Cementing and Circulating Hose, Acidizing, Test Lines and Choke and Kill Lines, etc.



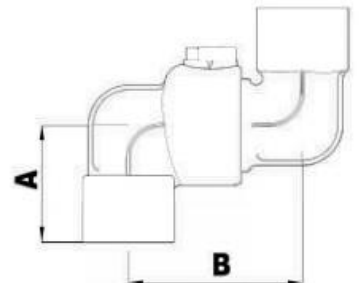
STYLE 10



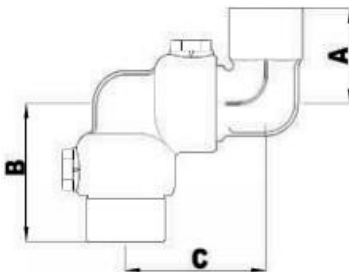
STYLE 20



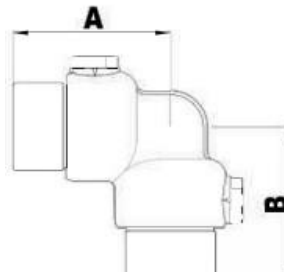
STYLE 30



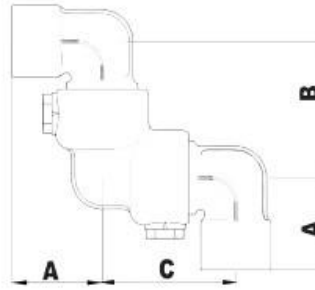
STYLE 40



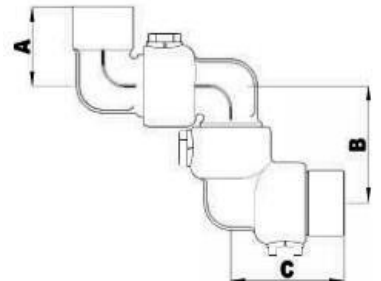
STYLE 50



STYLE 60



STYLE 70



STYLE 80

Style	End Connection	CWP (PSI)		A	B	C
		Working Pressure	Testing Pressure			
10	Threaded	6,000	9,000	163.83	151.89	151.89
20	Threaded	6,000	9,000	168.91	-	-
30	Threaded	6,000	9,000	101.60	147.83	-
40	Threaded	6,000	9,000	101.60	151.89	-
50	Threaded	6,000	9,000	101.60	151.89	147.83
60	Threaded	6,000	9,000	147.83	147.83	-
70	Threaded	6,000	9,000	101.60	151.89	151.89
80	Threaded	6,000	9,000	101.60	151.89	147.83

All Dimensions are in mm.



CEMENTING & CIRCULATING HOSES

High pressure cementing & circulating hoses incorporate swivel joints of forged steel with superior quality hardened ball races and high-pressure type packing units. Utilize swivel joint & hammer union end connections for fast and secure make up & breakout operations.

Made to with stand cold working pressures up to 15,000 PSI for standard service and 10,000 PSI for sour service

VW Forge Steel hose assemblies eliminate the need for exact alignment when installing to facilitate the routing of lines around fixed objects and simplify folding, transporting and storage of equipment. All materials meet ASTM or AISI standards.



Application:

High-pressure discharge lines, water lines, temporary flow lines, well testing lines, cementing and circulating lines, and other high-pressure applications.



INTEGRAL FITTINGS

- ✓ Forged Alloy Steel Body.
- ✓ Size Available in nominal size 2" & 3"
- ✓ Standard & H2S Service is used up to 6,000psi and tested at 9,000psi
- ✓ Suitable for High Pressure Application - Fracturing Cementing and Circulating Hose, Acidizing, Test Lines and Choke and Kill Lines, etc.



Nom. Size in.		1	1.5	2			3			4		
Figure No.		1502	1502	602	1502	2002	602	1502	2002	602	1002	1502
CWP (PSI)		15000	15000	6000	15000	15000	6000	15000	15000	6000	10000	15000
Long sweep Elbow	 F X M Wt. (Kg.)	-	-	10	12.6	-	24.5	22.9	-	40.4	40.4	-
	 M X M Wt. (Kg.)	-	-	12.2	15.4	-	30	29.5	-	46.3	46.3	-
Elbows	 F X M Wt. (Kg.)	-	-	12.4	14.7	-	45.6	46.3	100	-	-	-
	 M x M Wt. (Kg.)	-	-	16.3	18.5	-	52.2	54.9	-	-	-	-
	 F x F Wt. (Kg.)	-	-	8.2	10.9	-	38.1	39.5	-	-	-	-
Tees	 F x F x F Wt. (Kg.)	13.2	15.4	12	13.2	14.5	50.8	51.7	99.8	44.9	45.8	90.7
	 F x F x M Wt. (Kg.)	14.4	18	14.2	17	19	56.2	58	115	51.7	52.6	106
	 M x M x F Wt. (Kg.)	14.4	18	14.2	17	19	56.2	58	115	51.7	52.6	106
	 M x M x M Wt. (Kg.)	15.9	21.1	16.3	20.9	23.6	61.7	64.4	129	57.6	59	122
	 F x M x F Wt. (Kg.)	15.9	21.1	16.3	20.9	23.6	61.7	64.4	129	57.6	59	122



INTEGRAL FITTINGS

Nom. Size in.		1	1.5	2			3			4		
Figure No.		1502	1502	602	1502	2002	602	1502	2002	602	1002	1502
CWP (PSI)		15000	15000	6000	15000	15000	6000	15000	15000	6000	10000	15000
Crosses	 F x F x F x F Wt. (Kg.)	-	31.8	26.3	26.8	-	71.2	61.7	-	65.3	65.5	-
	 F x F x M x F Wt. (Kg.)	-	35	28.1	30	-	76.2	80.7	-	71.2	71.2	-
	 F x F x M x M Wt. (Kg.)	-	37.6	30.4	33.1	-	81.6	83	-	77.1	77.1	-
	 F x M x M x F Wt. (Kg.)	-	37.6	30.4	33.1	-	81.6	83	-	77.1	77.1	-

- ✓ Fittings feature high-quality forged construction with integral union end connections for high strength.
- ✓ Integral fittings come with full material traceability.
- ✓ We supply Integral fittings in customized end connections.
- ✓ Our elbows have been mandrel formed and not welded to ensure that the end user obtains maximum results from the equipment.





INTEGRAL PUP JOINTS

Integral Pup Joint

- ✓ VW Forge offers 2" & 3" 15000 PSI Integral alloy steel pups in lengths up to 12 feet.
- ✓ They feature an entirely one - piece, upset-forged construction, made for use where welded or Threaded connections are not recommended.
- ✓ These pups can be used with a complete range of high-pressure and abrasive oilfield fluids.
- ✓ Available in both standard and sour service.
- ✓ These Pup joints are 100% hydrostatically tested at 1.5 times the rated cold working pressure and certified for service.
- ✓ Non-standard lengths are available with minimum lead time.



NPST Pup Joint

- ✓ NPST Pup joints are made of high-quality seamless pipeline with male and female detachable Hammer Unions
- ✓ Uniform bore for greater flow capacity
- ✓ VW Forge Non-pressure Seal Pup joints are available in 2" & 3" nominal sizes.
- ✓ Available from 2" to 3" sizes, lengths for pup joints range from 1 foot to 20 feet to 15,000 psi working pressure





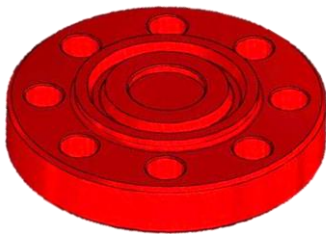
FLANGES & CROSSOVER

FLANGES

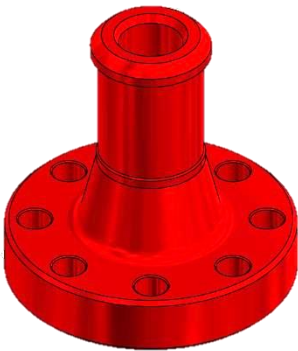
VW Forge offers a large range of API 6A and ANSI forged flanges, Blind flanges, slip-on flanges and weld-neck flanges in 4130 carbon steel, to suit 2” to 6” nominal bore with pressure rating as per API 6A and ASME



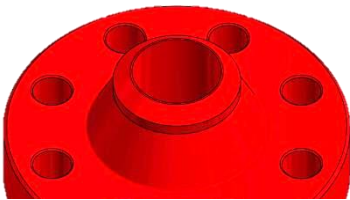
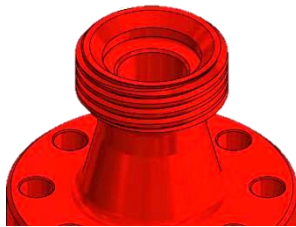
TEST FLANGE



BLIND FLANGE

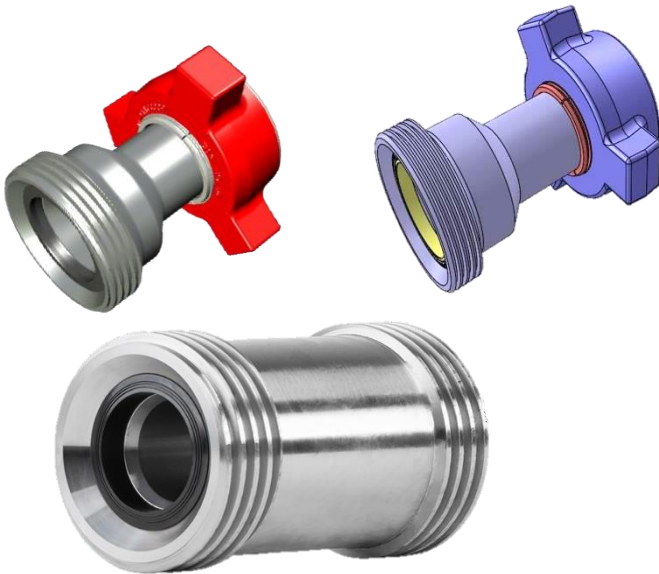


MALE END
ADAPTER FLANGE



CROSSOVER

VW Forge Adapters and crossovers are available in high quality forged construction with threaded, integral & welded hammer lug union end connection .



Size (Inches)	Combination	End Connection	CWP (PSI)
2	MxM	1502	15000
2	MxF	1502	15000
2	FxF	1502	15000
2x3	MxM	1502	15000
2x3	MxF	1502	15000
2x3	FxM	1502	15000
2x3	FxF	1502	15000
3	MxM	1502	15000
3	FxF	1502	15000



FORGED COMPONENTS



NUT



BONNET



GATE



CONNECTOR



BLIND



GEAR



LEVER YOKE



CROSS



SCRAPPER



OUR VALUED CLIENTS





VALVEWORKS FORGE

THANK YOU



<https://www.valveworks.in>



salesvwf@valveworks.in



[linkedin.com/company/valveworks-forge](https://www.linkedin.com/company/valveworks-forge)



Survey No 23/1, 25/1, 25/2, Village Vasuri (Khurd), Taluka Wada,
behind Blue Star Ltd, Palghar district, Maharashtra 421312

