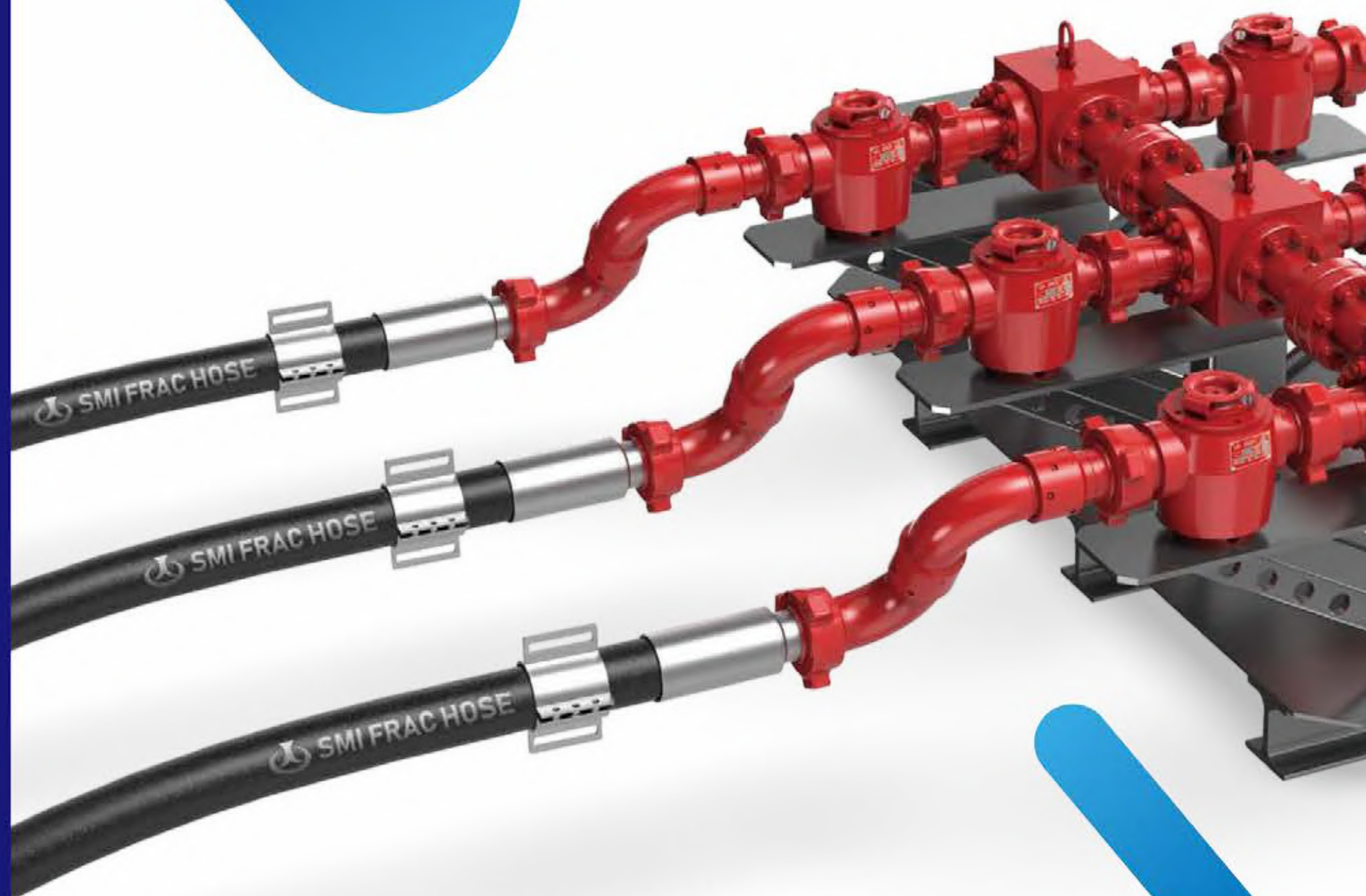




SMI

Flowline Products

Global Leading Korean Supplier
of Flowline Products



SMI KOREA (Headquarters)

23 3Sanupdanji 5Gil, Waegwan-Eup,
Chilgok-Gun, GyeongBuk, 39912 Republic of Korea
Tel. +82-54-976-8888 Fax. +82-54-977-6900
Mail. smi@smi.co.kr

SMI USA, Inc

10922 Moonlit Fields CT, Houston, TX 77064
Warehouse. 5656 N Sam Houston Pkwy
East, Suite 190, Houston, TX 77032
Tel. 956-342-3131
Mail. inohahn@hotmail.com



08 9437 4359
salesoilandgas@pirtek.com.au
www.pirtek.com.au

The Perfect Value of SMI

To the world and To the future,
To face the competition
with our innovation!

Leading Korean Company in Oil and Gas field

SMI manufacturing facility is located in Chilgok-Gun, South Korea. The plant was founded in 1998 and expanded in 2002, 2019, and 2021. SMI's all products utilizes the latest in CNC lathes, machining centers, production planning systems, CAD/CAM systems, and the latest technology in order and distribution operating systems. All products are manufactured in South Korea.

Quality Principle

SMI's Quality System has been qualified and approved under the American Petroleum Institute (API 6A and 16A), ISO 9001, and 14001 requirements. Also, Internal Audit with respect to manufacturing and measuring processes are conducted regularly to verify all policies are being followed and through continuous improvement drives value for the customer.

Customers Satisfaction Achievement

SMI always tries to prioritize its ability to provide a rapid response to our customers opinions through more Innovative technology and progressive global network system.



MCT Machining Line



R&D Center



CNC Machining Line

I Greeting

For all customers' satisfaction, all SMI staffs work with integrity and all our efforts.

SMI is the company that produce and export of Oil Field Equipment to all Oil- Producing Countries and with constant investment and development, to be the only company of Flow Line Products in Korea.

SMI Promise to do our best for products quantity with customer's advices at all time and has attitude of unceasing innovation and challenge so that will reborn as an essential company in the world.

CEO 



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I Certificate



ISO 9001:2015



ISO 14001:2015



ISO 45001:2018



ESG Certificate



RINA Type Approval



ABS Type Approval



ABS Manufacturing Assessment



Achilles JQS



API 6A-1064



API 16A-0497

VALVES

BEST INTERCHANGEABILITY

SMI Products are interchangeable with all major brand products which are manufactured in accordance with API regulations.

Product Descriptions

PLUG VALVES

- 9 BOTTOM ENTRY PLUG VALVE
MANUAL
- 10 BOTTOM ENTRY PLUG VALVE
GEAR OPERATED
- 11 LIGHT WEIGHT PLUG VALVE
SHORT / LONG
- 12 TOP ENTRY PLUG VALVE
- 13 FLANGED PLUG VALVE

CHOKE VALVES

- 15 2" ADJUSTABLE CHOKE VALVE
- 16 2" POSITIVE CHOKE VALVE
- 17 3" ADJUSTABLE CHOKE VALVE
- 18 3" POSITIVE CHOKE VALVE

CHECK VALVES

- 20 TOP ENTRY CHECK VALVE
- 21 DART CHECK VALVE
- 22 IN-LINE FLAPPER CHECK VALVE

RELIEF VALVES

- 24 2" RELIEF VALVE
- 25 3" RELIEF VALVE



PLUG VALVES



Features

- SMI Plug Valves are engineered with advanced techniques to deliver exceptional performance and reliability, making them a preferred choice worldwide in the oil and gas industry for both standard and sour gas services.
- Constructed from rugged forged alloy steel, these valves are designed to withstand high working pressures and are suitable for a range of high-pressure applications, including fracturing, cementing, and acidizing.
- Available in various sizes and customizable with different end connections and actuation options, SMI Plug Valves offer versatile solutions tailored to specific needs.
- Additionally, their parts are interchangeable with most major designs, ensuring compatibility and ease of maintenance.
- Size : 1", 2", 3", 4"
- Service : Standard, Sour gas
- Working Pressure : 15,000psi (Standard) / 10,000psi (Sour gas)



Bottom Entry Plug Valve Manual



Bottom Entry Plug Valve Gear Operated



Top Entry Plug Valve



Light Weight Plug Valve Short



Light Weight Plug Valve Long



Flanged Plug Valve

BOTTOM ENTRY PLUG VALVE MANUAL



Bottom Entry Plug Valve (Manual)

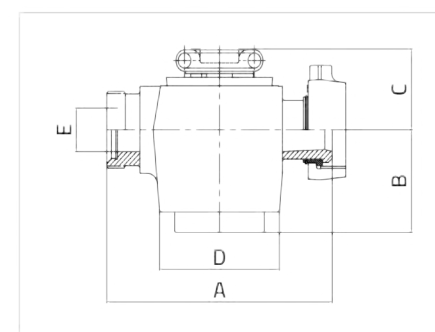
NO	Item	Part No.			Q'ty
		2"×1"	2"×2"	3"×3"	
Ass'y	Bottom Entry Plug Valve (Manual)	P21F1101	P22F1101	P33F1101	-
1	Cap Screw	P21FRK108	P22FRK108	P22FRK108	2
2	Flat Washer 1	P21FRK112	P22FRK112	P22FRK112	2
3	Flat Washer 2	(a) P21FRK107	P22FRK107	P22FRK107	2
4	Handle Adapter	P21FRK109	P22FRK109	P22FRK109	1
5	Stop Bolt	P21FRK114	P22FRK114	P22FRK114	1
6	Stop Collar	-	P22FRK111	P22FRK111	1
7	Grease Fitting	3/8" NPT	GF03E01101	GF03E01101	1
		3/4" (safetap)	-	GF06E02101	
8	Body	P21FRK106	P22FRK106	P33FRK106	1
9	Wing Nut	HU02JRK104	HU02JRK104	HU03JRK104	1
10	Segment	HU02JRK113	HU02JRK113	HU03JRK113	3
11	Retainer Ring	HU02JRK114	HU02JRK114	HU03JRK114	1
12	Lip Seal	HU02JRK115	HU02JRK115	HU03JRK115	1
13	Plug Seal	P21FRK118	P22FRK118	P22FRK118	2
14	Plug	P21FRK116	P22FRK116	P33FRK116	1
15	Roll Pin	P22FRK119	P22FRK119	(b) P22FRK119	2
16	Insert	P21FRK120	P22FRK120	P33FRK120	2
17	Insert O-Ring	P21FRK115	P22FRK115	P33FRK115	2
18	Adjustable Nut O-Ring	P21FRK117	P22FRK117	P33FRK117	1
19	Adjustable Nut	P21FRK113	P22FRK113	P33FRK113	1
20	Flat Washer 3	P21FRK121	-	-	1

(a) 1 QTY (b) 4 QTY

Bottom Entry Plug Valve Repair Kit

NO	Item	Part No.			Q'ty
		2"×1"	2"×2"	3"×3"	
-	Repair kit Set	P21FRK130	P22FRK130	P33FRK130	-
13	Plug Seal	P21FRK118	P22FRK118	P22FRK118	2
14	Plug	P21FRK116	P22FRK116	P33FRK116	1
16	Insert	P21FRK120	P22FRK120	P33FRK120	2
17	Insert O-Ring	P21FRK115	P22FRK115	P33FRK115	2
18	Adjusting Nut O-Ring	P21FRK117	P22FRK117	P33FRK117	1

Seal Kit Contains No. 13, 17 and 18.



Type	Size (Inch)	End Connection	Service	Working Pressure	Test Pressure	Operation type	Dimensions (Inch)				
							A	B	C	D	E
BE	2x1	1502 MxF	Standard	15,000	22,500	Handle	10.53	4.74	4.50	4.50	1.00
			Sour gas	10,000	15,000		8.50	5.41	5.25	6.85	2.05
	2x2	1502 MxF	Standard	15,000	22,500	Handle	13.88	5.41	5.26	6.85	1.75
			Sour gas	10,000	15,000						
	3x3	1502 MxF	Standard	15,000	22,500	Handle	17.00	7.20	10.95	9.06	3.05
			Sour gas	10,000	15,000						

BOTTOM ENTRY PLUG VALVE

VALVE GEAR OPERATED



Bottom Entry Plug Valve (Gear operated)

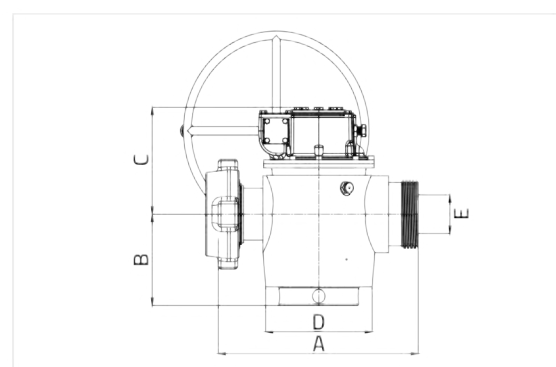
NO	Item	Part No. 3"x3"	Part No. 4"x4"	Q'ty
Ass'y	Bottom Entry Plug Valve (Gear operated)	P33F2101	P44F2101	-
1	Cap Screw	P22FRK108	P22FRK108	1
2	Flat Washer 1	P22FRK112	P22FRK112	1
3	Flat Washer 2	P22FRK107	P22FRK107	1
4	Grease Fitting	3/8" NPT GF03E01101 3/4" (safetap) GF06E02101	(a)GF03E01101 (a)GF06E02101	1
5	Body	P33FRK106	P44FRK106	1
6	Wing Nut	HU03JRK104	HU04JRK104	1
7	Segment	HU03JRK113	HU04JRK113	3
8	Retainer Ring	HU03JRK114	HU04JRK114	1
9	Lip Seal	HU03JRK115	HU04JRK115	1
10	Plug Seal	P22FRK118	P44FRK118	2
11	Plug	P33FRK116	P44FRK116	1
12	Roll Pin	P22FRK119	P44FRK119	6
13	Insert	P33FRK120	P44FRK120	2
14	Insert O-Ring	P33FRK115	P44FRK115	2
15	Adjustable Nut O-Ring	P33FRK117	P44FRK117	1
16	Adjustable Nut	P33FRK113	P44FRK113	1
17	Gear Box	P33FRK128	P33FRK128	1
18	Gear Box Upper Flange	P33FRK142	P33FRK142	1
19	Gear Box Lower Flange	P33FRK143	P33FRK143	1
20	Gear Box Pin	P33FRK144	P33FRK144	2
21	Gear Box Flange Bolt	P33FRK145	P33FRK145	8
22	Gear Box Bush	P33FRK146	P33FRK146	1
23	Gear Box Bush Cover	P33FRK147	P33FRK147	1
24	Gear Box Flange Fix Bolt	P33FRK148	P33FRK148	7
25	Gear Box Stem Bush Bolt	P33FRK149	P33FRK149	2

(a) Two(2) grease fitting for 4" plug valve
[3/4" safetap grease fitting : Option]

Bottom Entry Plug Valve Repair Kit

NO	Item	Part No. 3"x3"	Part No. 4"x4"	Q'ty
-	Repair Kit Set	P33FRK130	P44FRK130	-
10	Plug Seal	P22FRK118	P44FRK118	2
11	Plug	P33FRK116	P44FRK116	1
13	Insert	P33FRK120	P44FRK120	2
14	Insert O-Ring	P33FRK115	P44FRK115	2
15	Adjusting Nut O-Ring	P33FRK117	P44FRK117	1

Seal Kit Contains No. 10, 14 and 15.



Type	Size (Inch)	End Connection	Service	Working Pressure	Test Pressure	Operation type	Dimensions (Inch)				
							A	B	C	D	E
BE	3x3	1502 MxF	Standard	15,000	22,500	Gear	17.00	7.20	8.43	9.06	3.05
			Sour gas	10,000	15,000						
	4x4	1002 MxF	Standard	10,000	15,000	Gear	21.00	7.69	13.24	11.04	3.15
			Sour gas	7,500	10,000						
		1502 MxF	Standard	15,000	22,500	Gear	21.00	7.69	13.24	11.04	3.75
			Sour gas	10,000	15,000						

LIGHT WEIGHT PLUG VALVE

SHORT / LONG

Features

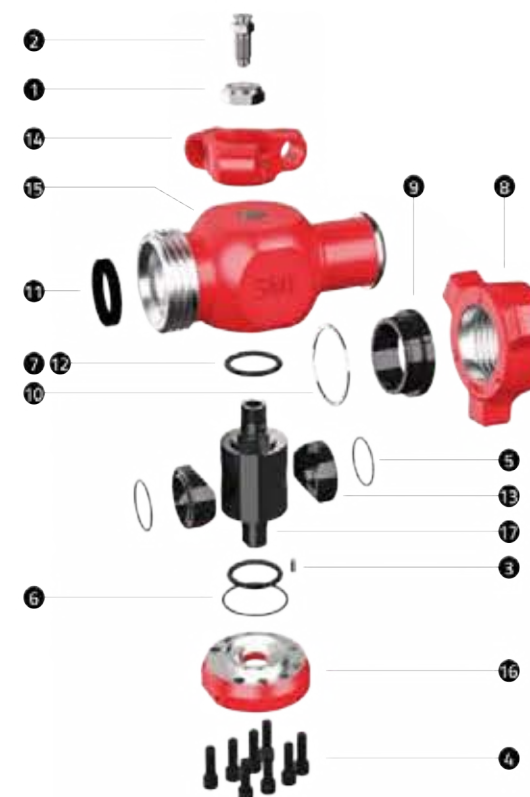
- SMI Light weight Plug Valves feature a compact and light weight design while delivering the same high performance.
- They are designed for easy assembly and disassembly, meeting HSE lifting requirements. HSE-compliant products are engineered with a maximum weight limit of 55 pounds (25 kg), allowing for safe handling and transport by a single individual.
- These valves offer reliable performance across a range of applications, including acidizing, cementing, coiled tubing, fracturing, sand control, and well kill operations.
- Size : 2"
- Service : Standard, Sour gas
- Working Pressure : 15,000psi (Standard) / 10,000psi (Sour gas)



Short



Long



Light Weight Plug Valve

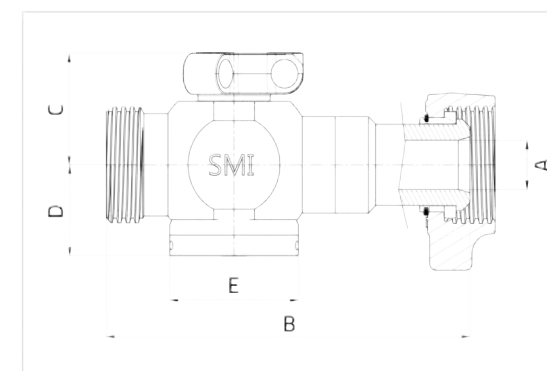
NO	Item	Part No.		Q'ty
		2"x2"(Short)	2"x2"(Long)	
Ass'y	Light Weight Plug Valve	PL22J1101	PL22J2101	-
1	Lock Nut	PL22JRK114	PL22JRK114	1
2	Grease Fitting	GF06E02101	GF06E02101	1
3	Pin	PL22JRK102	PL22JRK102	1
4	Bolt	PL22JRK103	PL22JRK103	8
5	O-Ring A	PL22JRK104	PL22JRK104	2
6	O-Ring B	PL22JRK105	PL22JRK105	1
7	O-Ring C	PL22JRK107	PL22JRK107	2
8	Wing Nut	HU02JRK104	HU02JRK104	1
9	Segments	HU02JRK113	HU02JRK113	3
10	Retainer Ring	HU02JRK114	HU02JRK114	1
11	Lip Seal	HU02JRK115	HU02JRK115	1
12	Plug seal ring	PL22JRK108	PL22JRK108	2
13	Insert	PL22JRK109	PL22JRK109	2
14	Handle	PL22JRK110	PL22JRK110	1
15	Body	PL22JRK111	PL22JRK115	1
16	Cap	PL22JRK112	PL22JRK112	1
17	Plug	PL22JRK113	PL22JRK113	1

Light Weight Plug Valve Repair Kit

NO	Item	Part No.	Q'ty
-	Repair Kit Set	-	-
5	O-Ring A	PL22JRK104	2
6	O-Ring B	PL22JRK105	1
8	O-Ring C	PL22JRK107	2
13	Plug seal ring	PL22JRK108	2
14	Insert	PL22JRK109	2
18	Plug	PL22JRK113	1

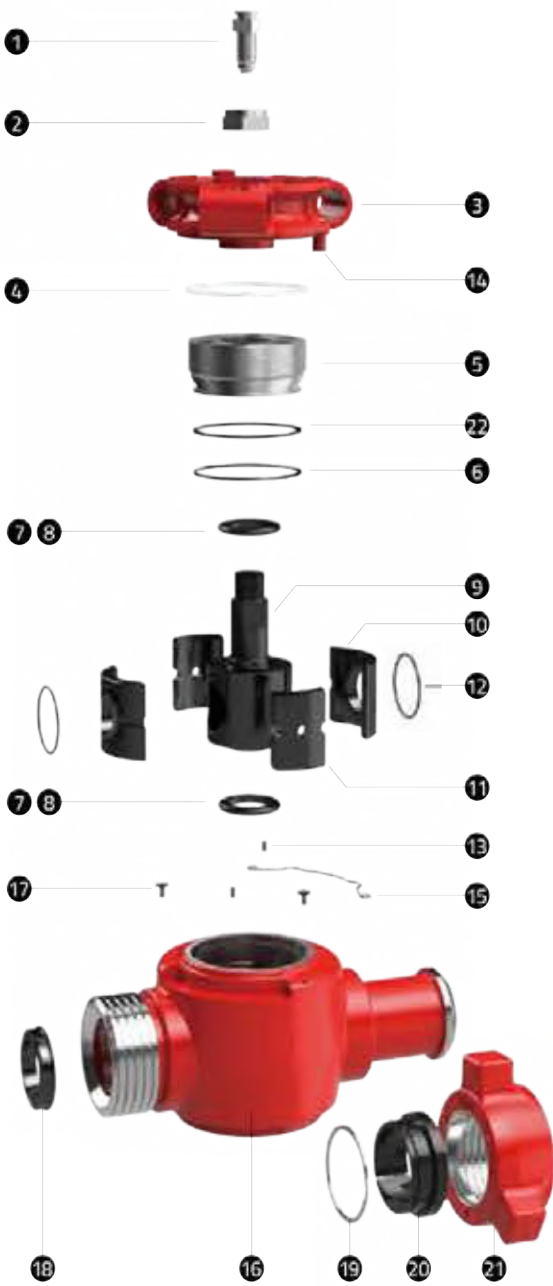
Long / Short Type Public

Seal Kit Contains No. 5, 6, 8 and 13.



Type	Size	End Connection	Service	Working Pressure(psi)	Test Pressure	Operation Type	Dimensions(Inch)					Weight(kg)
							A	B	C	D	E	
Short	2x2	1502 MxF	Standard	15,000	22,500	Handle	1.75	10.56	3.96	3.23	4.90	21.98
			Sour gas	10,000	15,000							
Long	2x2	1502 MxF	Standard	15,000	22,500	Handle	1.75	13.88	3.96	3.23	4.90	24.35
			Sour gas	10,000	15,000							

TOP ENTRY PLUG VALVE

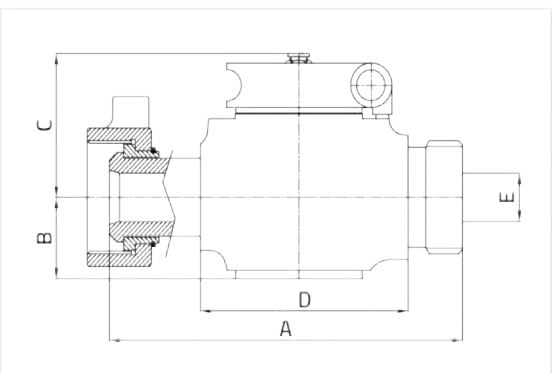


Top Entry Plug Valve

NO	Item	Part No.		Q'ty
		2" x 1"	2" x 2"	
Ass'y	TE Valve 1502 Handle Type	PT21F1101	PT22F1101	-
1	Grease Fitting	GF06E02101	GF06E02101	1
2	Lock Nut	PT21FRK107	PT22FRK107	1
3	Handle Adapter	PT21FRK109	PT22FRK109	1
4	Felt Gasket	PT21FRK121	PT22FRK121	1
5	Body Cap	PT21FRK113	PT22FRK113	1
6	Body Cap O-Ring	PT21FRK117	PT22FRK117	1
7	Plug Seal O-Ring	PT21FRK111	PT22FRK111	2
8	Plug Seal Support Ring	PT21FRK108	PT22FRK108	2
9	Plug	PT21FRK116	PT22FRK116	1
10	Insert	PT21FRK120	PT22FRK120	2
11	Side Segment	PT21FRK112	PT22FRK112	2
12	Insert O-Ring	PT21FRK115	PT22FRK115	2
13	Dowel Pin	PT21FRK123	PT22FRK123	2
14	Roll Pin	PT21FRK119	PT22FRK119	1
15	Hold Spring	PT21FRK114	PT22FRK114	1
16	Body	PT21FRK106	PT22FRK106	1
17	Hold Spring Pin	PT21FRK118	PT22FRK118	2
18	Lip Seal	HU02JRK115	HU02JRK115	1
19	Retainer Ring	HU02JRK114	HU02JRK114	1
20	Segment	HU02JRK113	HU02JRK113	3
21	Wing Nut	HU02JRK104	HU02JRK104	1
22	Body Cap O-Ring Backup	-	PT22FRK122	1

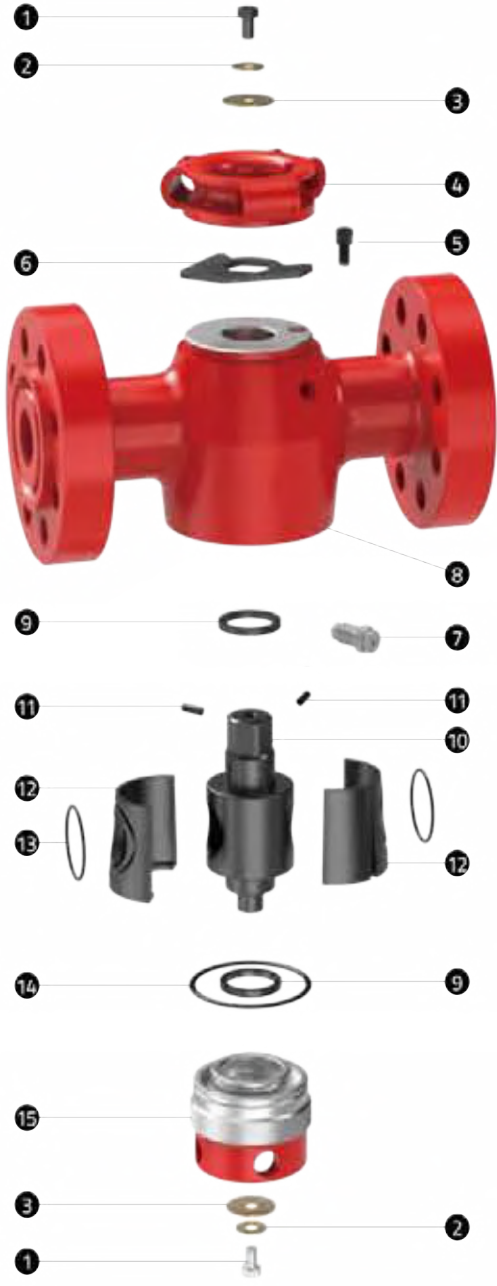
Top Entry Plug Valve Repair Kit

NO	Item	Part No.		Q'ty
		2" x 1"	2" x 2"	
-	Repair Kit Set	PT21FRK124	PT22FRK124	-
4	Felt Gasket	PT21FRK121	PT22FRK121	1
6	Body Cap O-Ring	PT21FRK117	PT22FRK117	1
7	Plug Seal O-Ring	PT21FRK111	PT22FRK111	2
8	Plug Seal Support Ring	PT21FRK108	PT22FRK108	2
9	Plug	PT21FRK116	PT22FRK116	1
10	Insert	PT21FRK120	PT22FRK120	2
11	Side Segment	PT21FRK112	PT22FRK112	2
12	Insert O-Ring	PT21FRK115	PT22FRK115	2
22	Body Cap O-Ring Backup	-	PT22FRK122	1



Type	Size (Inch)	End Connection	Service	Working Pressure	Test Pressure	Operation type	Dimensions (Inch)				
							A	B	C	D	E
TE	2x1	1502 MxF	Standard	15,000	22,500	Handle	10.58	2.40	4.82	5.28	0.87
			Sour gas	10,000	15,000	Handle					
	2x2	1502 MxF	Standard	15,000	22,500	Handle	13.88	2.95	5.24	8.23	1.75
			Sour gas	10,000	15,000	Handle					

FLANGED PLUG VALVE



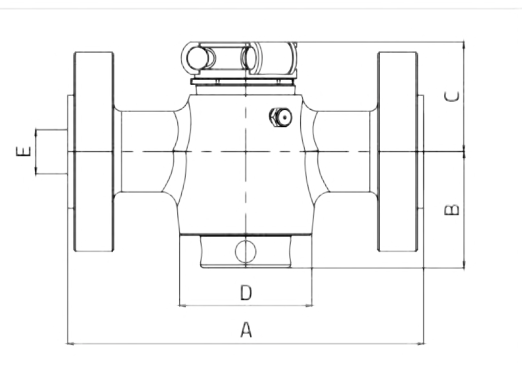
Flanged Plug Valve

NO	Item	Part No.		Q'ty
		2" 2,500lb (ANSI)	2 1/16" 15K (API)	
Ass'y	Plug Valve Flange Type	PA02G11013	PP02E1101	-
1	Cap Screw	PA02GRK102	PP02ERK102	2
2	Flat Washer 1	PA02GRK103	PP02ERK103	2
3	Flat Washer 2	PA02GRK104	PP02ERK104	2
4	Handle Adapter	PA02GRK105	PP02ERK105	1
5	Stop Bolt	PA02GRK106	PP02ERK106	1
6	Stop Collar	PA02GRK107	PP02ERK107	1
7	Grease Fitting	3/8" NPT	GF03E01101	1
		3/4" (safetap)	GF06E02101	
8	Body	PA02GRK1083	PP02ERK108	1
9	Plug Seal	PA02GRK109	PP02ERK109	2
10	Plug	PA02GRK110	PP02ERK110	1
11	Roll Pin	PA02GRK111	PP02ERK111	2
12	Insert	PA02GRK112	PP02ERK112	2
13	Insert O-Ring	PA02GRK113	PP02ERK113	2
14	Adjustable Nut O-Ring	PA02GRK114	PP02ERK114	1
15	Adjustable Nut	PA02GRK115	PP02ERK115	1

Flanged Plug Valve Repair Kit

NO	Item	Part No.		Q'ty
		2" 2,500lb (ANSI)	2 1/16" 15K (API)	
-	Repair Kit Set	PA02GRK116	PP02ERK116	-
9	Plug Seal	PA02GRK109	PP02ERK109	2
10	Plug	PA02GRK110	PP02ERK110	1
12	Insert	PA02GRK112	PP02ERK112	2
13	Insert O-Ring	PA02GRK113	PP02ERK113	2
14	Adjustable Nut O-Ring	PA02GRK114	PP02ERK114	1

Seal Kit Contains No. 9, 13 and 14



Type	Size (Inch)	End Connection	Service	Working Pressure	Test Pressure	Operation type	Dimensions (Inch)				
							A	B	C	D	E
BE	2" (ANSI)	2,500lb Flange	Standard	6,000	9,000	Handle	17.87	5.39	5.09	6.85	2.05
			Sour gas	6,000	9,000	Handle					
	2 1/16" (API)	15K Flange	Standard	15,000	22,500	Handle	19.02	5.39	5.09	6.85	2.05
			Sour gas	10,000	15,000	Handle					

CHOKE VALVES



Features

- SMI Choke Valves offer a range of specifications, including 2" Fig 1502 MxF with either a 3/4" or 1" orifice, and 3" Fig 1502 MxF with a 2" orifice, all featuring a hammer union end connection.
- Constructed from a forged alloy steel body with stainless steel and tungsten carbide parts, these valves are highly durable and corrosion-resistant.
- Their components are interchangeable with major brands, facilitating easy integration and maintenance.
- SMI Choke Valves are versatile and suitable for a broad spectrum of applications such as wellheads, well testing, stream injection, choke and kill manifolds, and well cleaning operations.
- Size : 2", 3"
- Service : Standard, Sour gas
- Working Pressure : 15,000psi (Standard) / 10,000psi (Sour gas)



2" Adjustable Choke Valve



2" Positive Choke Valve

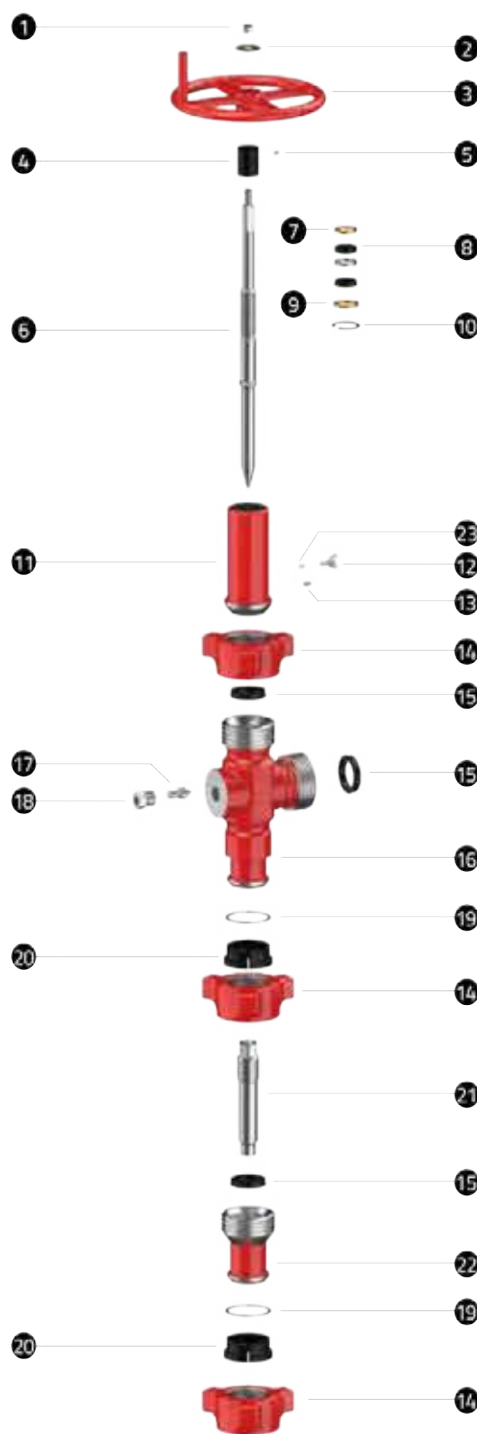


3" Adjustable Choke Valve



3" Positive Choke Valve

2" ADJUSTABLE CHOKE VALVE

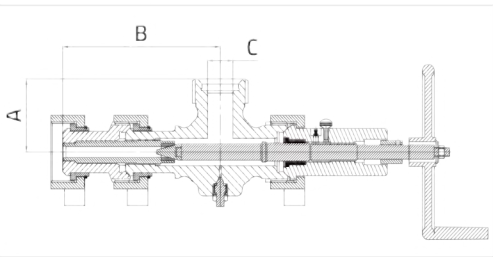


2" Adjustable Choke Valve

NO	Item	Part No.			Q'ty
		3/4" Half	3/4" Fully	1" Fully	
Ass'y	2" Adjustable Choke Valve	CV02F11011	CV02F11012	CV02F11014	1
1	Stem Nut	CV02FRK106	CV02FRK106	CV02FRK106	1
2	Washer	CV02FRK107	CV02FRK107	CV02FRK107	1
3	Hand Wheel	CV02FRK108	CV02FRK108	CV02FRK108	1
4	Indicator	CV02FRK109	CV02FRK109	CV02FRK109	1
5	Lock Screw	CV02FRK110	CV02FRK110	CV02FRK110	1
6	Choke Stem	CV02FRK111	CV02FRK111	CV02FRK111	1
7	Stem Guide	CV02FRK112	CV02FRK112	CV02FRK112	2
8	Stem Seal	CV02FRK113	CV02FRK113	CV02FRK113	2
9	Junk Ring	CV02FRK114	CV02FRK114	CV02FRK114	1
10	Snap Ring	CV02FRK115	CV02FRK115	CV02FRK115	1
11	Choke Bonnet	CV02FRK116	CV02FRK116	CV02FRK116	1
12	Thumb Screw	CV02FRK117	CV02FRK117	CV02FRK117	1
13	Grease Fitting	CV02FRK129	CV02FRK129	CV02FRK129	1
14	Wing Nut	HU02JRK104	HU02JRK104	HU02JRK104	3
15	Lip Seal	HU02JRK115	HU02JRK115	HU02JRK115	3
16	Choke Body	CV02FRK118	CV02FRK118	CV02FRK118	1
17	Plug Stem	CV02FRK147	CV02FRK147	CV02FRK147	1
18	Stem Cap	CV02FRK120	CV02FRK120	CV02FRK120	1
19	Retainer Ring	HU02JRK114	HU02JRK114	HU02JRK114	2
20	Segment	HU02JRK113	HU02JRK113	HU02JRK113	6
21	Choke Seat	CV02FRK130	CV02FRK121	CV02FRK131	1
22	Choke Saver	CV02FRK122	CV02FRK122	CV02FRK122	1
23	Lock Plug	CV02FRK134	CV02FRK134	CV02FRK134	1

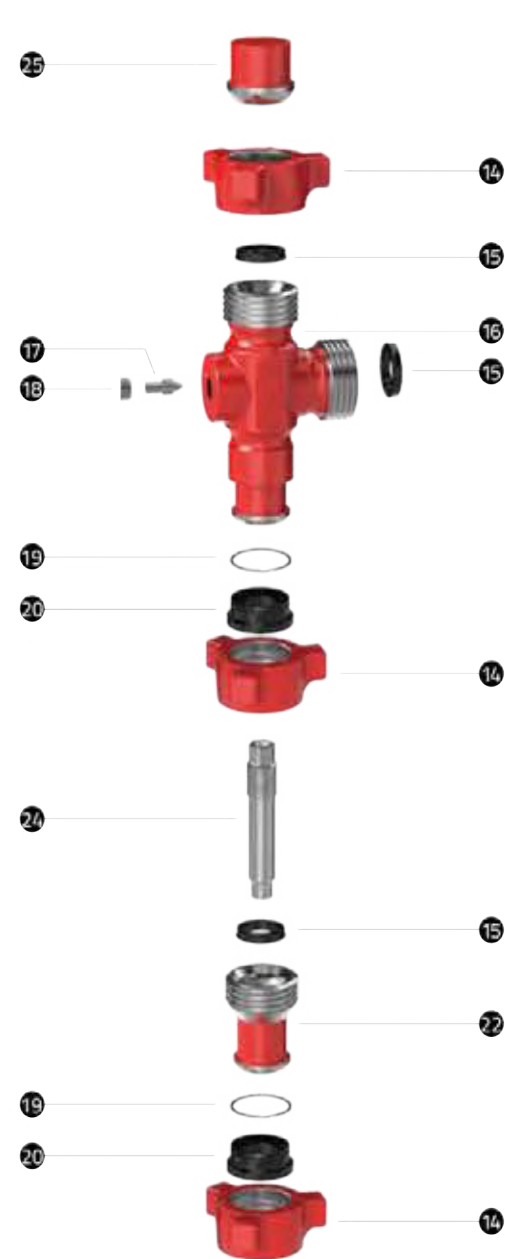
2" Adjustable Choke Valve Repair Kit

NO	Item	Part No.			Q'ty
		3/4" Half	3/4" Fully	1" Fully	
-	Repair Kit Set	CV02FRK1521	CV02FRK1522	CV02FRK1524	-
6	Choke Stem	CV02FRK111	CV02FRK111	CV02FRK111	1
7	Stem Guide	CV02FRK112	CV02FRK112	CV02FRK112	2
8	Stem Seal	CV02FRK113	CV02FRK113	CV02FRK113	2
9	Junk Ring	CV02FRK114	CV02FRK114	CV02FRK114	1
10	Snap Ring	CV02FRK115	CV02FRK115	CV02FRK115	1
21	Choke Seat	CV02FRK130	CV02FRK121	CV02FRK131	1



Size	Service	Working Pressure(psi)	Seat	Type	A	B	C	Weight(kg)	Part Number
2"	Standard	15,000	3/4" Half	Adjustable	5.00	11.66	1.88	46.70	CV02F1101
	Sour gas	10,000	3/4" Fully 1" Fully						CV02F1201

2" POSITIVE CHOKE VALVE

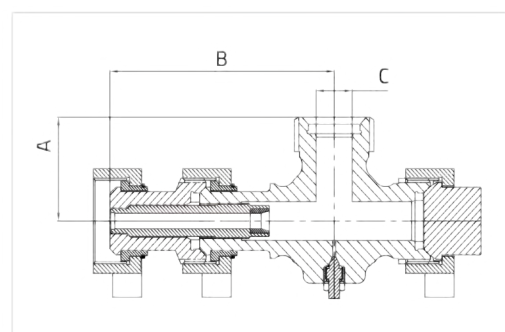


2" Positive Choke Valve

NO	Item	Part No.			Q'ty
		3/4" Half	3/4" Fully	1" Fully	
Ass'y	2" Positive Choke Valve	CV02F21011	CV02F21012	CV02F21014	1
14	Wing Nut	HU02JRK104	HU02JRK104	HU02JRK104	3
15	Lip Seal	HU02JRK115	HU02JRK115	HU02JRK115	3
16	Choke Body	CV02FRK118	CV02FRK118	CV02FRK118	1
17	Plug Stem	CV02FRK147	CV02FRK147	CV02FRK147	1
18	Stem Cap	CV02FRK120	CV02FRK120	CV02FRK120	1
19	Retainer Ring	HU02JRK114	HU02JRK114	HU02JRK114	2
20	Segment	HU02JRK113	HU02JRK113	HU02JRK113	6
22	Choke Saver	CV02FRK122	CV02FRK122	CV02FRK122	1
24	Choke Bean	CV02FRK1511	CV02FRK1512	CV02FRK1514	1
25	Blind Male Sub	HU02JRK109	HU02JRK109	HU02JRK109	1

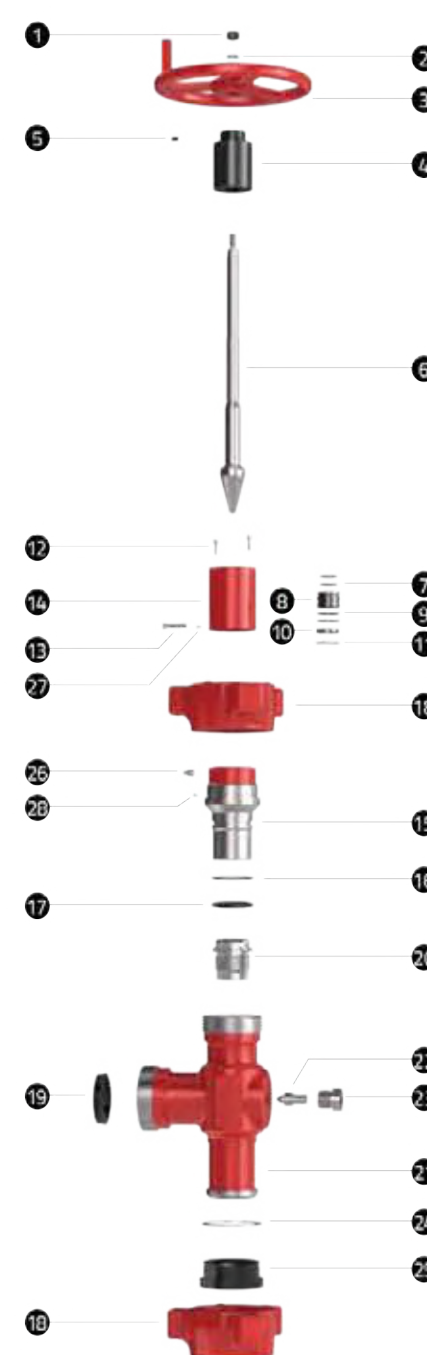
2" Positive Choke Valve Repair Kit

NO	Item	Part No.			Q'ty
		3/4" Half	3/4" Fully	1" Fully	
24	Choke Bean	CV02FRK1511	CV02FRK1512	CV02FRK1514	1



Size	Service	Working Pressure(psi)	Seat	Type	A	B	C	Weight(kg)	Part Number
2"	Standard	15,000	3/4" Half	Positive	5.00	11.66	1.88	29.00	CV02F2101
	Sour gas	10,000	3/4" Fully 1" Fully						CV02F2201

3" ADJUSTABLE CHOKE VALVE

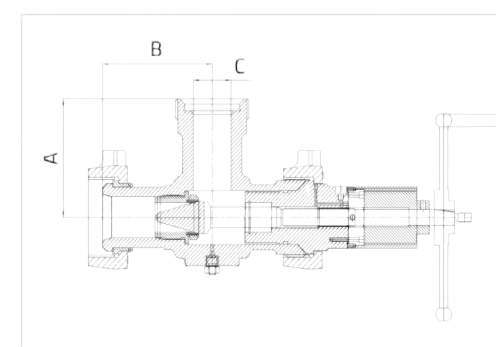


3" Adjustable Choke Valve

NO	Item	Part No.		Q'ty
		2" Half	2" Fully	
Ass'y	3" Adjustable Choke Valve	CV03F11015	CV03F11016	1
1	Stem Nut	CV02FRK106	CV02FRK106	1
2	Washer	CV02FRK107	CV02FRK107	1
3	Hand Wheel	CV03FRK108	CV03FRK108	1
4	Indicator	CV03FRK158	CV03FRK158	1
5	Lock Screw	CV03FRK110	CV03FRK110	1
6	Choke Stem	CV03FRK111	CV03FRK111	1
7	Inside O-Ring	CV03FRK124	CV03FRK124	2
8	Seal Piston	CV03FRK125	CV03FRK125	1
9	Outsider O-Ring	CV03FRK123	CV03FRK123	2
10	Stem Seal	CV03FRK113	CV03FRK113	1
11	Snap Ring	CV02FRK115	CV02FRK115	1
12	Bonnet Bolt	CV03FRK144	CV03FRK144	2
13	Thumb Screw	CV03FRK117	CV03FRK117	1
14	Bonnet Extension	CV03FRK126	CV03FRK126	1
15	Choke Bonnet	CV03FRK116	CV03FRK116	1
16	Bonnet Back Up Ring	CV03FRK145	CV03FRK145	1
17	Bonnet O-Ring	CV03FRK127	CV03FRK127	1
18	Wing Nut	HU03JRK104	HU03JRK104	2
19	Lip Seal	HU03JRK115	HU03JRK115	1
20	Choke Seat	CV03FRK163	CV03FRK164	1
21	Choke Body	CV03FRK118	CV03FRK118	1
22	Plug Stem	CV02FRK147	CV02FRK147	1
23	Stem Cap	CV02FRK120	CV02FRK120	1
24	Retainer Ring	HU03JRK114	HU03JRK114	1
25	Segment	HU03JRK113	HU03JRK113	3
26	Grease Fitting	CV02FRK129	CV02FRK129	1
27	Lock Plug	CV02FRK134	CV02FRK134	1
28	Set Screw	CV03FRK149	CV03FRK149	2

3" Adjustable Choke Valve Repair Kit

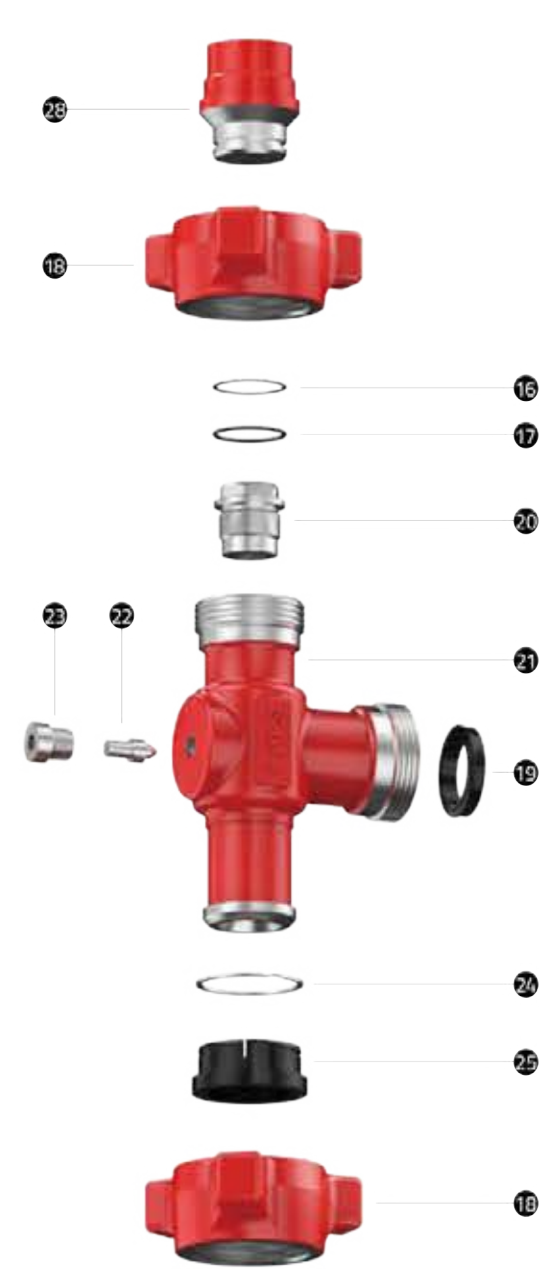
NO	Item	Part No.		Q'ty
		2" Half	2" Fully	
-	Repair Kit Set	CV03FRK1525	CV03FRK1526	-
6	Chock Stem	CV03FRK111	CV03FRK111	1
7	Inside O-Ring	CV03FRK124	CV03FRK124	2
8	Seal Piston	CV03FRK125	CV03FRK125	1
9	Outsider O-Ring	CV03FRK123	CV03FRK123	2
10	Stem Seal	CV03FRK113	CV03FRK113	1
11	Snap Ring	CV02FRK115	CV02FRK115	1
16	Bonnet Back Up Ring	CV03FRK145	CV03FRK145	1
17	Bonnet O-Ring	CV03FRK127	CV03FRK127	1
20	Choke Seat	CV03FRK163	CV03FRK164	1



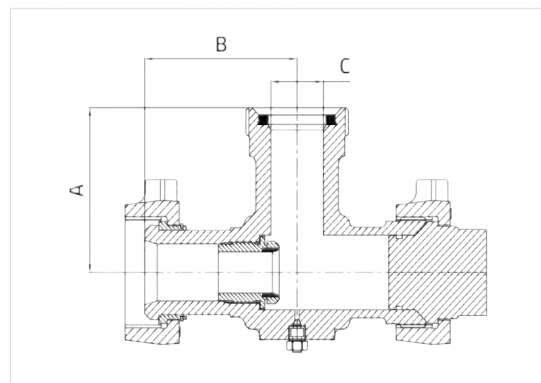
Size	Service	Working Pressure(psi)	Seat	Type	A	B	C	Weight(kg)	Part Number
3"	Standard	15,000	2" Half	Adjustable	8.00	8.00	2.75	60.00	CV03F1101
	Sour gas	10,000	2" Fully						CV03F1201

3" POSITIVE CHOKE VALVE

CHECK VALVES



3" Positive Choke Valve				
NO	Item	Part No.		Q'ty
		2" Half	2" Fully	
Ass'y	3" Positive Choke Valve	CV03F21015	CV03F21016	1
16	Bonnet Back Up Ring	CV03FRK145	CV03FRK145	1
17	Bonnet O-Ring	CV03FRK127	CV03FRK127	1
18	Wing Nut	HU03JRK104	HU03JRK104	2
19	Lip Seal	HU03JRK115	HU03JRK115	1
20	Choke Bean	CV03FRK1515	CV03FRK1516	1
21	Choke Body	CV03FRK118	CV03FRK118	1
22	Plug Stem	CV02FRK147	CV02FRK147	1
23	Stem Cap	CV02FRK120	CV02FRK120	1
24	Retainer Ring	HU03JRK114	HU03JRK114	1
25	Segment	HU03JRK113	HU03JRK113	3
28	Bonnet Blind	CV03FRK150	CV03FRK150	1



3" Positive Choke Valve Repair Kit				
NO	Item	Part No.		Q'ty
		2" Half	2" Fully	
20	Chock Bean	CV03FRK1515	CV03FRK1516	1

Size	Service	Working Pressure(psi)	Seat	Type	A	B	C	Weight(kg)	Part Number
3"	Standard	15,000	2" Half	Adjustable	8.00	8.00	2.75	50.00	CV03F2101
	Sour gas	10,000	2" Fully						CV03F2201



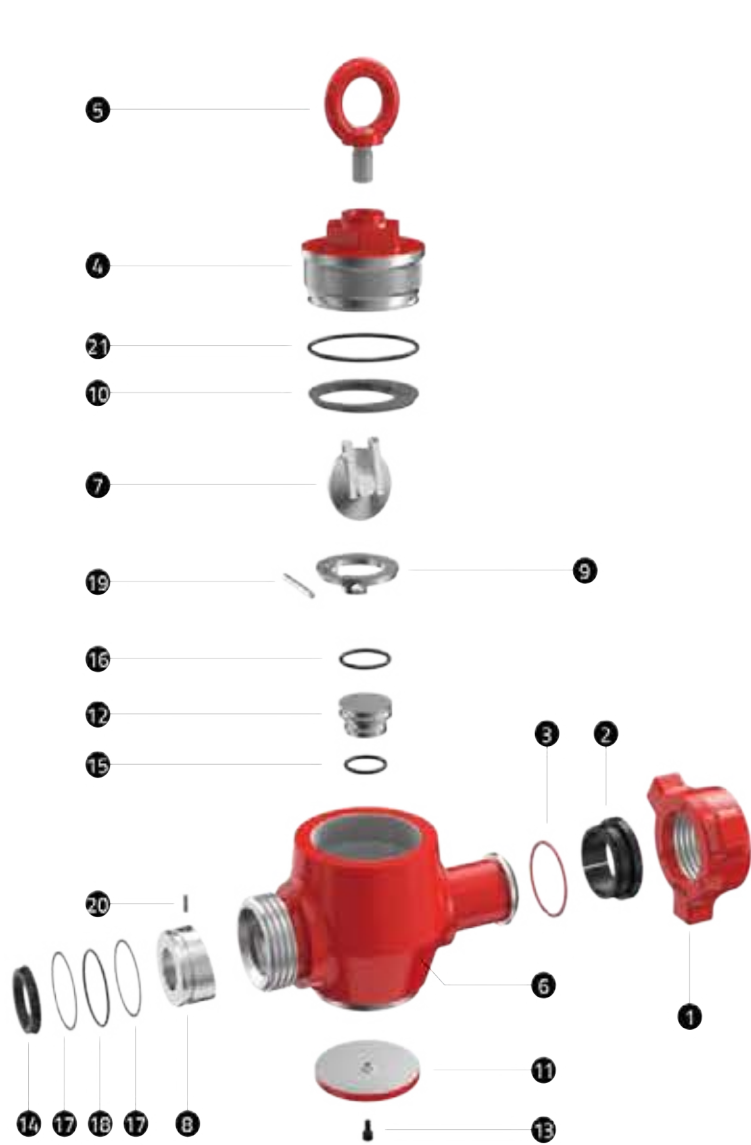
Features

- SMI Check Valves are essential devices that allow fluid to flow in one direction while preventing backflow, thus protecting equipment.
- They are commonly used in well service applications and are installed in treating lines to enable flow towards the well while blocking any reverse flow.
- With a simple design for easy maintenance, these valves use stainless steel springs for effective sealing even at low pressures.
- They are certified to API 6A material and temperature classes, ensuring reliable performance under high pressure.
- Compatible with most major designs, SMI check valves are suitable for various high-pressure applications such as fracturing, cementing, and acidizing.
- Size : 2", 3"
- Service : Standard, Sour gas
- Working Pressure : 15,000psi (Standard) / 10,000psi (Sour gas)



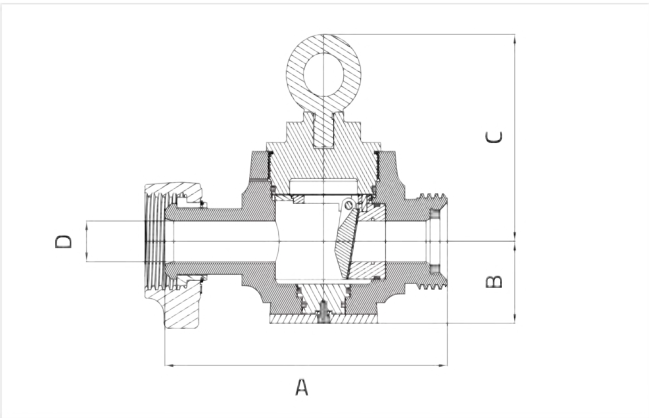
Top Entry Check Valve Dart Check Valve In-Line Flapper Check Valve

TOP ENTRY CHECK VALVE



Top Entry Check Valve

NO	Item	Part No. 2"	Part No. 3"	Q'ty
Ass'y	Top Entry Check Valve	CH02F1101	CH03F1101	-
1	Wing Nut	HU02JRK104	HU03JRK104	1
2	Segments	HU02JRK113	HU03JRK113	3
3	Retainer Ring	HU02JRK114	HU03JRK114	1
4	Body Cap	CH02FRK106	CH03FRK106	1
5	I-Bolt	CH02FRK109	CH02FRK109	1
6	Body	CH02FRK110	CH03FRK110	1
7	Seat Cover	CH02FRK108	CH03FRK108	1
8	Seat	CH02FRK118	CH03FRK118	1
9	Seat Cover Body1	CH02FRK107	CH03FRK107	1
10	Seat Cover Body2	CH02FRK129	CH03FRK129	1
11	Plug Cap	CH02FRK112	CH03FRK112	1
12	Plug	CH02FRK111	CH03FRK111	1
13	Cap Screw	CH02FRK113	CH03FRK113	1
14	Lip Seal	HU02JRK115	HU03JRK115	1
15	Plug O-Ring A	CH02FRK122	CH03FRK122	1
16	Plug O-Ring B	CH02FRK123	CH03FRK123	1
17	Seat Back Up Ring	CH02FRK130	(a)CH03FRK130	2
18	Seat O-Ring A	CH02FRK119	CH03FRK119	1
19	Seat Cover Pin	CH02FRK116	CH03FRK116	1
20	Seat Pin	CH02FRK115	CH03FRK115	1
21	Body Cap O-Ring	CH02FRK114	CH03FRK114	1



-(a) 1QTY

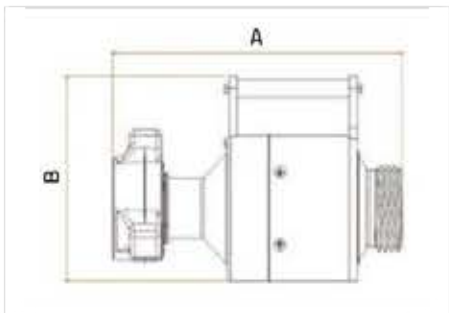
Size	Service	Working Pressure(psi)	Test Pressure	Type	A	B	C	D	Weight(kg)	Part Number
2"	Standard	15,000	22,500	1502 MxF	1.75	13.12	3.52	8.90	38.00	CH02F1101
	Sour gas	10,000	15,000							CH02F1201
3"	Standard	15,000	22,500	1502 MxF	2.75	15.67	4.05	10.51	83.10	CH03F1101
	Sour gas	10,000	15,000							CH03F1201

DART CHECK VALVE



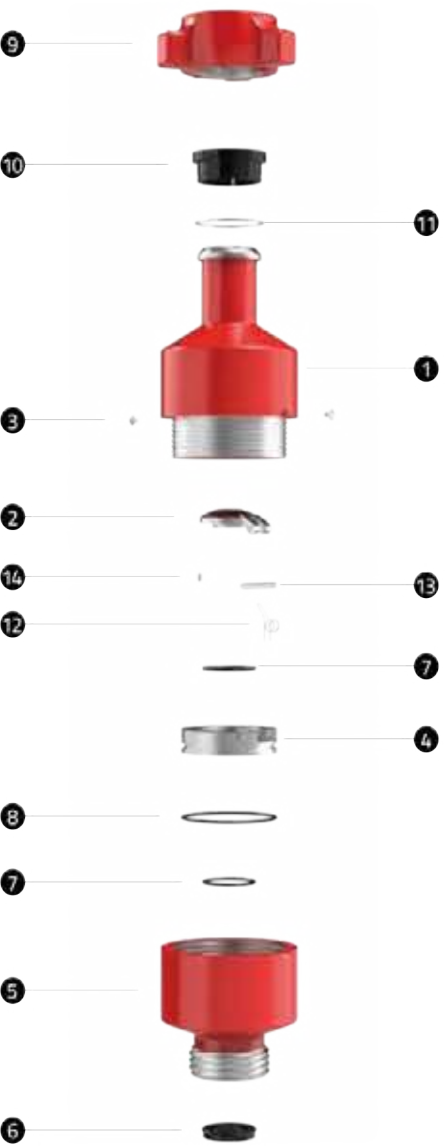
Dart Check Valve

NO	Item	Part No.		Q'ty
		2"	3"	
Ass'y	Dart Check Valve	CD02F1101	CD03F1101	1
1	Wing Nut	HU02JRK104	HU03JRK104	1
2	Retainer Ring	HU02JRK114	HU03JRK114	1
3	Segments	HU02JRK113	HU03JRK113	3
4	Male Body	CD02FRK106	CD03FRK106	1
5	Bolt	CD02FRK108	CD03FRK108	1
6	Handle Nut	CD02FRK109	CD03FRK109	2
7	Plate, Male Body	CD02FRK110	CD03FRK110	1
8	Handle	CD02FRK107	CD03FRK107	1
9	Set Screw	CD02FRK111	CD03FRK111	6
10	Seal Male Body	CD02FRK112	CD03FRK112	1
11	Female Bracket	CD02FRK113	CD03FRK113	1
12	Handle Bolt	CD02FRK114	CD03FRK114	1
13	Spacer	CD02FRK115	CD03FRK115	1
14	O-Ring Seat	CD02FRK116	CD03FRK116	1
15	Seat Retainer Ring	CD02FRK117	CD03FRK117	1
16	Lip Seal	HU02JRK115	HU03JRK115	1
17	Female Body	CD02FRK118	CD03FRK118	1
18	Stem	CD02FRK121	CD03FRK121	1
19	Spring	CD02FRK123	CD03FRK123	1
20	Molded Seal	CD02FRK124	CD03FRK124	1
21	Seat	CD02FRK125	CD03FRK125	1
22	Dart Head	CD02FRK126	CD03FRK126	1



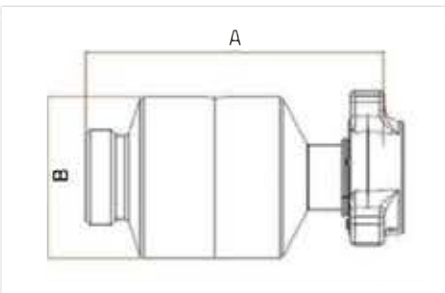
Size	Service	Working Pressure(psi)	Test Pressure	Type	A	B	Weight(kg)	Part Number
2"	Standard	15,000	22,500	1502 MxF	14.04"	9.81"	37.50	CD02F1101
	Sour gas	10,000	15,000		14.04"	9.81"	37.50	CD02F1201
3"	Standard	15,000	22,500	1502 MxF	15.67"	10.95"	55.00	CD03F1101
	Sour gas	10,000	15,000		15.67"	10.95"	55.00	CD03F1201

IN-LINE FLAPPER CHECK VALVE



In-Line Flapper Check Valve

NO	Item	Part No.		Q'ty
		2"	3"	
Ass'y	In-Line Flapper Check Valve	CF02F1101	CF03F1101	1
1	Male Body	CF02FRK111	CF03FRK111	1
2	Seat Cover	CF02FRK102	CF03FRK102	1
3	Flush Bolt	CF02FRK103	CF03FRK103	2
4	Seat	CF02FRK104	CF03FRK104	1
5	Female Body	CF02FRK105	CF03FRK105	1
6	Lip Seal	HU02JRK115	HU03JRK115	1
7	O-Ring-1	CF02FRK106	CF03FRK106	2
8	O-Ring-2	CF02FRK107	CF03FRK107	1
9	Wing Nut	HU02JRK104	HU03JRK104	1
10	Segments	HU02JRK113	HU03JRK113	3
11	Retainer Ring	HU02JRK114	HU03JRK114	1
12	Torsion Spring	CF02FRK108	CF03FRK108	1
13	Seat Cover Pin	CF02FRK109	CF03FRK109	1
14	Seat Pin	CF02FRK110	CF03FRK110	1



Size	Service	Working Pressure(psi)	Test Pressure	Type	A	B	Weight(kg)	Part Number
2"	Standard	15,000	22,500	1502 MxF	14.04"	7.00"	37.00	CF02F1101
	Sour gas	10,000	15,000		14.04"	7.00"	37.00	CF02F1201
3"	Standard	15,000	22,500	1502 MxF	15.67"	8.11"	57.76	CF03F1101
	Sour gas	10,000	15,000		15.67"	8.11"	57.76	CF03F1201

RELIEF VALVES



Features

- SMI Relief Valves feature a rugged construction with a forged alloy steel body, ensuring reliable performance even under high working pressures.
- The relief valve's pressure can be adjusted from 2,000 psi up to the maximum pressure level, with pressure settings available upon request.
- This design guarantees precise control and durability in demanding applications.
- Size : 2", 3"
- Service : Standard, Sour gas
- Working Pressure : 15,000psi (Standard) / 10,000psi (Sour gas)

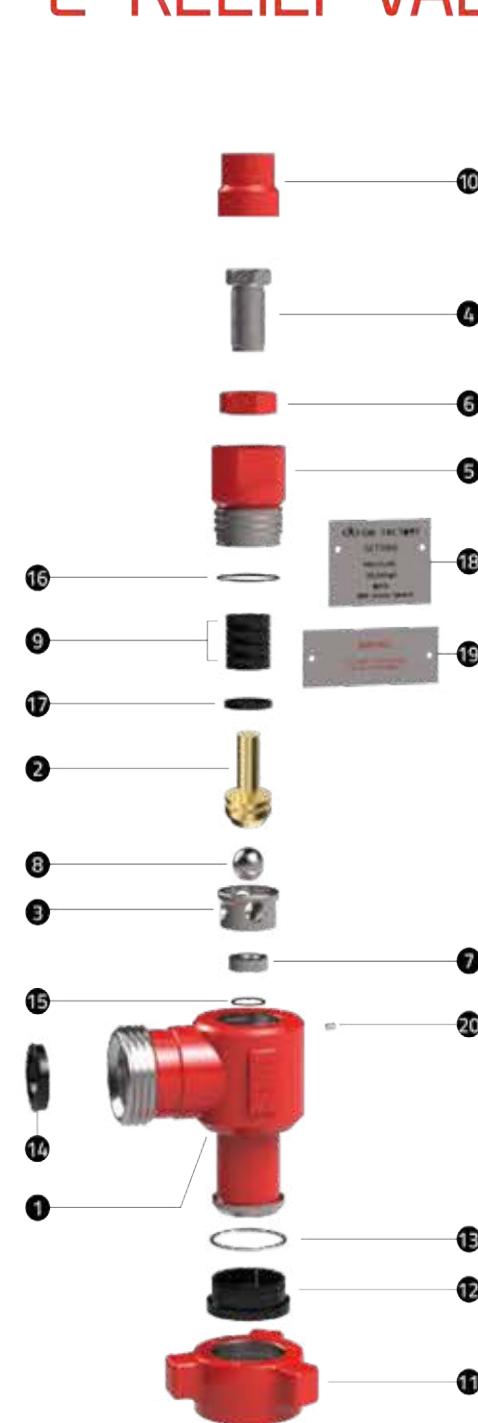


2" Relief Valve



3" Relief Valve

2" RELIEF VALVE



2" Relief Valve

NO	Item	Part No. 2"	Q'ty
Ass'y	2" Relief Valve	RE02F1101	1
1	Body	RE02FRK102	1
2	Stem	RE02FRK103	1
3	Spider	RE02FRK104	1
4	Adjustable Screw	RE02FRK105	1
5	Cap	RE02FRK106	1
6	Hex Nut	RE02FRK107	1
7	Seat	RE02FRK108	1
8	*Ball	RE02FRK109	1
9	Disk Spring	RE02FRK110	16
10	Adjustable Screw Cover	RE02FRK111	1
11	Wing Nut	HU02JRK104	1
12	Segments	HU02JRK113	3
13	Retainer Ring	HU02JRK114	1
14	Lip Seal	HU02JRK115	1
15	Body O-Ring	RE02FRK112	1
16	Cap O-Ring	RE02FRK113	1
17	Keeper Seal	RE02FRK114	1
18	Data Band	RE02FRK115	1
19	Warning Band	RE02FRK116	1
20	Set Screw	RE02FRK136	1

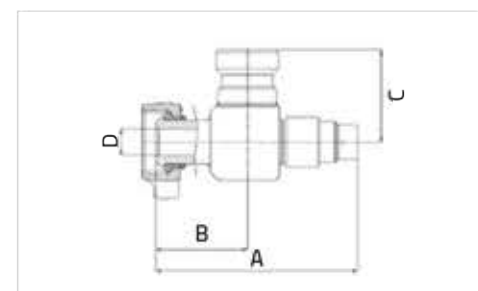
*Material : SS304 (Standard), SS440C (Sour Gas)

2" Repair Kit (Major)

No.	Item	Part No. 2"	Q'ty
Ass'y			
2	Stem	RE02FRK103	1
3	Spider	RE02FRK104	1
4	Adjustable screw	RE02FRK105	1
6	Hex nut	RE02FRK107	1
7	Seat	RE02FRK108	1
8	*Ball	RE02FRK109	1
9	Disk spring	RE02FRK110	16
15	Body O-Ring	RE02FRK112	1
16	Cap O-Ring	RE02FRK113	1
17	Keeper Seal	RE02FRK114	1

2" Repair Kit (Minor)

NO	Item	Part No. 2"	Q'ty
Ass'y			
7	Seat	RE02FRK108	1
8	*Ball	RE02FRK109	1
15	Body O-Ring	RE02FRK112	1



Size	Service	Working Pressure(psi)	OperationType	A	B	C	D	Weight(kg)	Part Number
2"	Standard	2,000~15,000	Spring	13.33	6.06	6.06	1.75	24.50	RE02F1101
	Sour gas	2,000~10,000						24.50	RE02F1201

3" RELIEF VALVE



3" Relief Valve

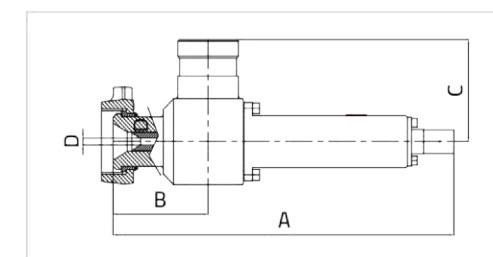
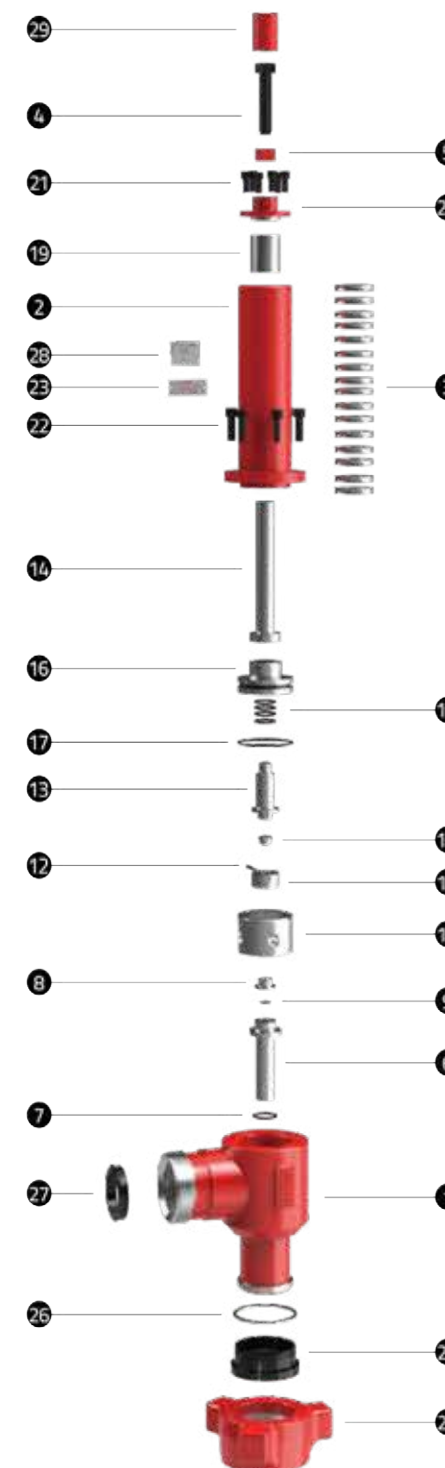
NO	Item	Part No. 3"	Q'ty
Ass'y	3" Relief Valve	RE03F1101	1
1	Body	RE03FRK102	1
2	Cap	RE03FRK106	1
3	Disk Spring	RE03FRK110	36
4	Adjustable Screw	RE03FRK105	1
5	Hex Nut	RE03FRK107	1
6	Fixed Nozzle	RE03FRK119	1
7	Body O-Ring	RE03FRK112	1
8	Discharge Nozzle	RE03FRK120	1
9	Fixed Nozzle O-Ring	RE03FRK135	1
10	Valve Gate	RE03FRK121	1
11	Gate Keeper	RE03FRK122	1
12	Taper Pin	RE03FRK123	1
13	Keeper Lower	RE03FRK124	1
14	Keeper Upper	RE03FRK125	1
15	Spider Lower	RE03FRK126	1
16	Spider Upper	RE03FRK127	1
17	Spider Upper O-Ring 1	RE03FRK128	1
18	Spider Upper O-Ring 2	RE03FRK129	4
19	Guide Bushing	RE03FRK130	1
20	Flange	RE03FRK131	1
21	Wrench Bolt 1	RE03FRK132	6
22	Wrench Bolt 2	RE03FRK133	6
23	Warning Bend	RE03FRK116	1
24	Wing Nut	RE03FRK104	1
25	Segment	RE03FRK113	3
26	Retainer Ring	RE03FRK114	1
27	Lip Seal	RE03FRK115	1
28	Data Bend	RE03FRK115	1
29	Adjustable screw Cover	RE03FRK111	1

3" Repair Kit (Major)

No.	Item	Part No. 3"	Q'ty
Ass'y			
3	Disk Spring	RE03FRK110	36
6	Fixed Nozzle	RE03FRK119	1
7	Body O-Ring	RE03FRK112	1
8	Discharge Nozzle	RE03FRK120	1
9	Fixed Nozzle O-Ring	RE03FRK135	1
10	Valve Gate	RE03FRK121	1
11	Gate Keeper	RE03FRK122	1
13	Keeper Lower	RE03FRK124	1
15	Spider Lower	RE03FRK126	1
17	Spider Upper O-Ring 1	RE03FRK128	1
18	Spider Upper O-Ring 2	RE03FRK129	4

3" Repair Kit (Minor)

NO	Item	Part No. 3"	Q'ty
Ass'y			
8	Discharge Nozzle	RE03FRK120	1
9	Fixed Nozzle O-Ring	RE03FRK135	1
10	Valve Gate	RE03FRK121	1



Size	Service	Working Pressure(psi)	OperationType	A	B	C	D	Weight(kg)	Part Number
3"	Standard	2,000 ~15,000	Spring	30.25	8.44	8.44	0.55	75.50	RE03F1101
	Sour gas	2,000 ~10,000						75.50	RE03F1201

PUP JOINTS & FITTINGS



Product Descriptions

PUP JOINTS

- 27 NPST PUP JOINT
INTEGRAL PUP JOINT

INTEGRAL FITTINGS

- 28 CROSS
LATERAL/ELBOW
TEE/WYE

LONG SWEEP ELBOWS

- 30 LONG SWEEP ELBOW

PUP JOINTS

Features

- SMI Pup Joints are available in two types: NPST Pup Joints and Integral Pup Joints.
- NPST Pup Joints are crafted from high-quality seamless pipeline and feature detachable male and female Hammer Unions, ensuring reliable connections.
- Integral Pup Joints, made from high-quality alloy steel, offer an integrally constructed, forged-ended design with seamless upset construction for enhanced durability.
- The length of both types can be customized to meet specific customer requirements.
- Size : 2", 3", 4"
- Service : Standard, Sour gas
- Working Pressure : 15,000psi (Standard) / 10,000psi (Sour gas)

NPST Pup Joint



Size	Union End	CWP (psi)	Length							
			1ft	2ft	3ft	4ft	5ft	6ft	8ft	10ft
2"	1502 MxF	15,000								
	Part No.		PJ2F110101	PJ2F110102	PJ2F110103	PJ2F110104	PJ2F110105	PJ2F110106	PJ2F110108	PJ2F110110
	1502 MxF	15,000								
	Part No.		PJ2F110112	PJ2F110115	PJ2F110120	-	-	-	-	-
3"	1502 MxF	15,000								
	Part No.		PJ3F110101	PJ3F110102	PJ3F110103	PJ3F110104	PJ3F110105	PJ3F110106	PJ3F110108	PJ3F110110
	1502 MxF	15,000								
	Part No.		PJ3F110112	PJ3F110115	PJ3F110120	-	-	-	-	-
4"	1002 MxF	10,000								
	Part No.		PJ4E110101	PJ4E110102	PJ4E110103	PJ4E110104	PJ4E110105	PJ4E110106	PJ4E110108	PJ4E110110
	1002 MxF	10,000								
	Part No.		PJ4E110112	PJ4E110115	PJ4E110120	-	-	-	-	-
4"	1502 MxF	15,000								
	Part No.		PJ4F110101	PJ4F110102	PJ4F110103	PJ4F110104	PJ4F110105	PJ4F110106	PJ4F110108	PJ4F110110
	1502 MxF	15,000								
	Part No.		PJ4F110112	PJ4F110115	PJ4F110120	-	-	-	-	-

Integral Pup Joint



Size	Union End	CWP (psi)	Length							
			1ft	2ft	3ft	4ft	5ft	6ft	8ft	10ft
2"	1502 MxF	15,000								
	Part No.		PJ2F210101	PJ2F210102	PJ2F210103	PJ2F210104	PJ2F210105	PJ2F210106	PJ2F210108	PJ2F210110
3"	1502 MxF	15,000								
	Part No.		PJ3F210101	PJ3F210102	PJ3F210103	PJ3F210104	PJ3F210105	PJ3F210106	PJ3F210108	PJ3F210110

INTEGRAL FITTINGS



Features

- SMI Integral Fittings are designed for a variety of high-pressure applications, and are available in sizes of 2", 3", and 4".
- SMI Integral Fittings are offered in both standard and sour gas service configurations, ensuring reliable performance across a range of demanding environments.
- Size : 2", 3", 4"
- Service : Standard, Sour gas
- Working Pressure : 15,000psi (Standard) / 10,000psi (Sour gas)



■ Cross MFFF



■ Cross MMMF



■ Lateral 45° FFM



■ Elbow MF



■ Tee FFM

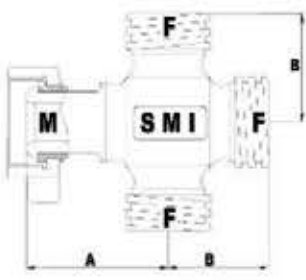


■ WYE FFM

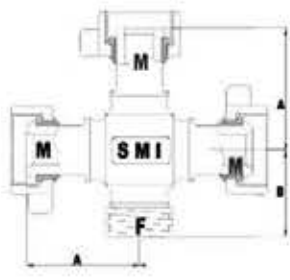
End Connections Information

Item	Figure	End Connection	Size	A	B	C	Part No.
Elbow	1502	Straight MF	2"	7.00	5.00	-	L02F11011
			3"	8.00	8.00	-	L03F11011
			4"	10.50	10.50	-	L04F11011
			* 2" (B)	6.06	6.06	-	L02F11011B
			* 3" (B)	8.44	8.44	-	L03F11011B
		Cushion MF	2"	7.00	5.00	-	L02F21011
			3"	8.00	8.00	-	L03F21011
			4"	10.50	10.50	-	L04F21011
		Double Cushion MF	2"	7.00	5.00	-	L02F31011
			3"	8.00	8.00	-	L03F31011
			4"	10.50	10.50	-	L04F31011
Tee	1502	FFM	2"	7.00	5.00	-	TE02F1101
		MMF		-	-	-	TE02F2101
		FFF		5.00	5.00	-	TE02F5101
		MMM	3"	7.00	7.00	-	TE02F6101
		FFM		8.00	8.00	-	TE03F1101
		MMF		-	-	-	TE03F2101
		FFM	* 2" (B)	6.06	6.06	-	TE02F11010B
		MMF	* 3" (B)	8.44	8.44	-	TE02F21010B
		FFM		-	-	-	TE03F11010B
		MMF		-	-	-	TE03F21010B
		FFM	4"	10.50	10.50	-	TE04F1101
		MMF		10.50	10.50	-	TE04F2101
		MMMF	2"	7.00	5.00	-	CR02F1101
		FFFM		-	-	-	CR02F2101
Cross	1502	MMMF		8.00	8.00	-	CR03F1101
		FFFM	3"	-	-	-	CR03F2101
		FFM	4"	13.28	21.08	6.63	LT04E1101
		MMF	2"	10.50	15.75	5.25	LT02F1101
Lateral 45°	1502	MMF	2"	10.50	15.75	5.25	LT02F4101
		FFM	3"	13.88	20.88	7.00	LT03F1101
		FFM	2"	5.25	5.00	-	WY02F2101
WYE	1502	FFM	3"	7.75	7.75	-	WY03F2101

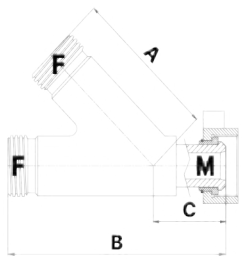
B Type *



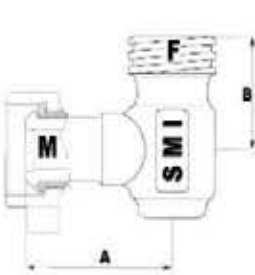
■ Cross MFFF



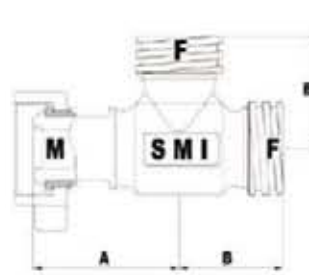
■ Cross MMMF



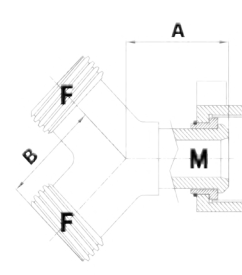
■ Lateral 45° FFM



■ Elbow MF



■ Tee FFM

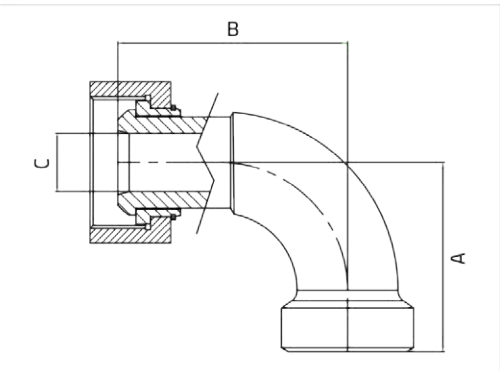


■ WYE FFM

LONG SWEEP ELBOWS

Features

- SMI Long Sweep Elbows are designed with 1502 Hammer Union end connections and are available in sizes of 2" and 3".
- Available in 45° and 90° angles, SMI Long Sweep Elbows provide reliable performance for various high-pressure applications.
- Size : 2", 3"
- Service : Standard, Sour gas
- Working Pressure : 15,000psi (Standard)
10,000psi (Sour gas)



Long Sweep Elbow

NO	Item	Part No.		Q'ty
		2"	3"	
Ass'y	Long Sweep Elbow 1502	LS02J11011	LS03J11011	1
1	Body	LS02JRK1021	LS03JRK1021	1
2	Segment	HU02JRK113	HU03JRK113	3
3	Retainer Ring	HU02JRK114	HU03JRK114	1
4	Wing Nut	HU02JRK104	HU03JRK104	1
5	Lip Seal	HU02JRK115	HU03JRK115	1

Size	Service	Working Pressure(psi)	Type	A	B	C	Weight(kg)	Part Number
2"	Standard	15,000	Hammer Union Connection	5.91	7.17	1.81	13.88	LS02J11011
	Sour gas	10,000					13.88	LS02J12011
3"	Standard	15,000	Hammer Union Connection	7.94	10.00	2.75	29.12	LS03J11011
	Sour gas	10,000					29.12	LS03J12011

SWIVEL JOINTS & STEEL HOSE LOOPS



Product Descriptions

SWIVEL JOINTS

- 32 CODE RED
- 34 CODE SILVER
- 36 CODE BLUE
CODE GREEN

STEEL HOSE LOOPS

- 37 CODE RED
CODE SILVER

SWIVEL JOINTS

CODE RED

Features

- SMI Swivel Joints Code Red are forged from alloy steel and heat-treated for superior durability.
- Designed for high-pressure applications, they are ideal for use in fracturing, cementing, circulating hoses, acidizing, choke and kill lines, and test lines.
- SMI Swivel Joints Code Reds are offered in both standard and sour gas service configurations, ensuring reliable performance across a range of demanding environments.
- Size : 2", 3", 4" (For all styles)
- Service : Standard, Sour gas
- Working Pressure : 15,000psi (Standard)
10,000psi (Sour gas)



Style 10 MF(MM)



Style 20 MF(MM)



Style 30 MF



Style 40 MF



Style 50 MF



Style 60 MM(MF)



Style 80 MF

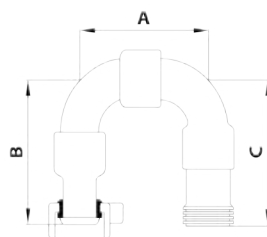


Style 100 MF(MM)

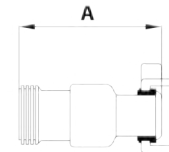
style	Item	2 (Inch)				3 (Inch)				4 (Inch)			
		A	B	C	Part No.	A	B	C	Part No.	A	B	C	Part No.
10	MxF	10.95	10.95	10.95	S02F011011A	16.40	14.40	14.40	S03F011011A	21.20	20.41	20.41	S04F011011A
	MxM	10.95	10.95	10.95	S02F011012A	16.40	14.40	14.40	S03F011012A	21.20	20.41	20.41	S04F011012A
20	MxF	10.95	-	-	S02F021011A	12.40	-	-	S03F021011A	-	-	-	-
30	MxF	10.95	5.50	-	S02F031011A	14.40	7.90	-	S03F031011A	20.41	9.70	-	S04F031011A
40	MxF	10.80	7.48	5.51	S02F041011A	16.42	9.05	8.00	S03F041011A	-	-	-	-
50	MxF	10.95	5.50	10.95	S02F051011A	16.40	7.90	14.40	S03F051011A	21.20	9.70	20.41	S04F051011A
60	MxF	10.95	1.86	-	S02F061011A	14.40	14.40	-	S03F061011A	-	-	-	-
80	MxF	10.95	5.50	10.95	S02F081011A	16.40	14.40	14.40	S03F081011A	21.20	20.41	9.70	S04F081011A
100	MxF	10.95	10.95	10.86	S02F101011A	16.40	14.40	14.40	S03F101011A	-	-	-	-



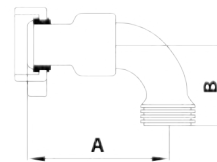
SWIVEL JOINTS &
STEEL HOSE LOOPS



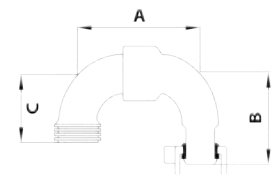
Style 10 MxF



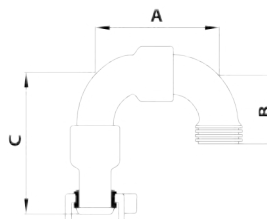
Style 20 MxF



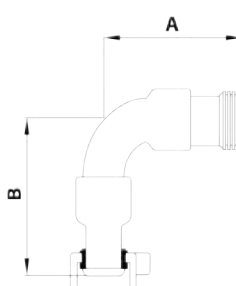
Style 30 MxF



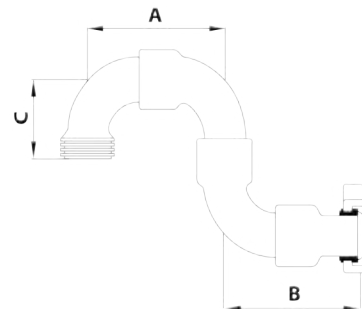
Style 40 MxF



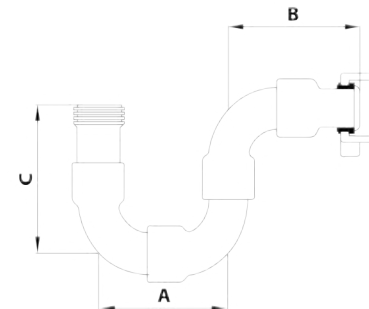
Style 50 MxF



Style 60 MxF



Style 80 MxF



Style 100 MxF

Swivel Joint Code Red Repair Kit

NO	Item	Part No.			Q'ty		
		2"	3"	4"	2"	3"	4"
-	Repair Kit Set	S02FRK1300A	S03FRK1300A	S04FRK1300A	-	-	-
1	Ball	S02FRK1110A	S02FRK1110A	S04FRK1110A	72	105	78
2	Ball Plug	S02FRK1140A	S02FRK1140A	S04FRK1140A	3	3	3
3	Ball Plug O-Ring	S02FRK1130A	S02FRK1130A	S04FRK1130A	3	3	3
4	Snap Ring	S02FRK1150A	S02FRK1150A	S04FRK1150A	3	3	3
5	Pressure Seal	S02FRK1160A	S03FRK1160A	S04FRK1160A	1	1	1
6	Dust Seal	S02FRK1360A	S03FRK1170A	S04FRK1360A	1	*1	1
7	Grease O-Ring (M)	S02FRK1180A	S03FRK1180A	S04FRK1180A	1	1	1
8	Grease Fitting Set Screw	S02FRK1370A	S02FRK1370A	S02FRK1370A	1	1	1
9	Set Screw O-Ring	S02FRK1380A	S02FRK1380A	S02FRK1380A	1	1	1

Seal Kit Contains No. 5, 6 and 7
No.6 * : O-Ring Type

SWIVEL JOINTS

CODE SILVER

Features

- SMI Swivel Joints Code Silver features a customized end type and are constructed from forged alloy steel with heat treatment for enhanced durability.
- Available for standard and sour gas service, these joints are designed for use with cementing, drill mud, fracturing fluids, and well servicing.
- They feature a female end connection and API line pipe thread, and are pressure tested to 1.5 times the nominal safe working pressure (NSCWP), ensuring reliable performance.
- Size : 1 1/2", 2" (*1 1/2-inch size is available only in Style 20&50)
- Service : Standard
- Working Pressure : 6,000psi (Standard, Sour gas)



Style 10



Style 20



Style 30



Style 40



Style 50



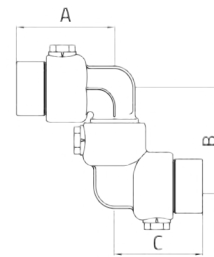
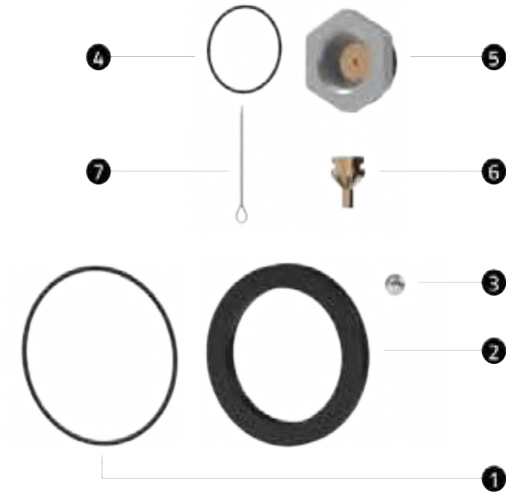
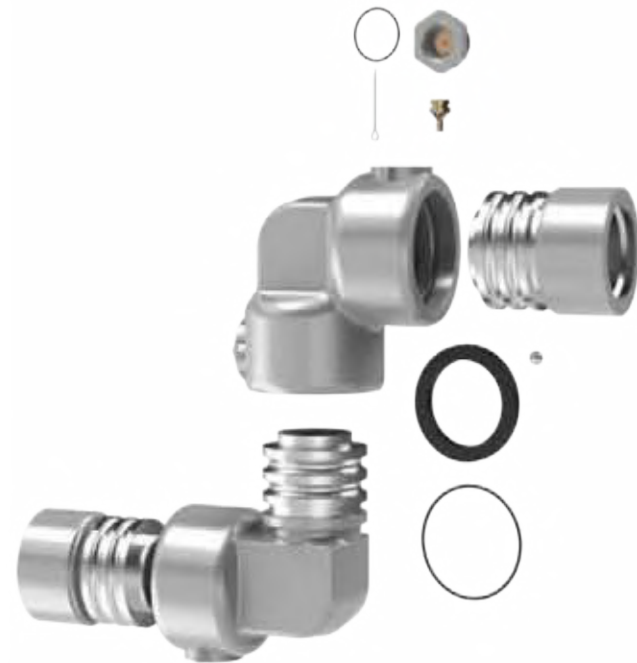
Style 60



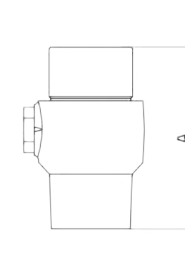
Style 70



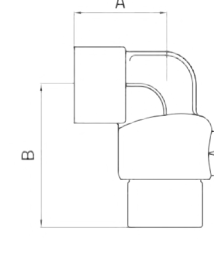
Style 80



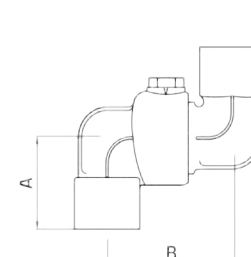
Style 10



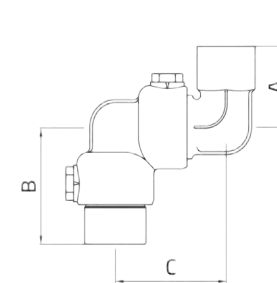
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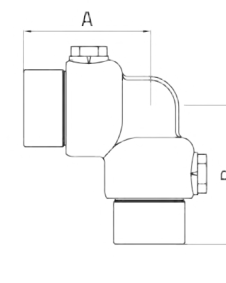
Style 30



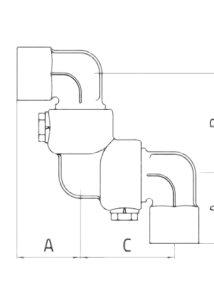
Style 40



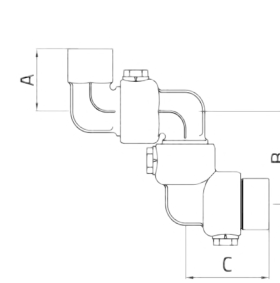
Style 50



Style 60



Style 70



Style 80

Swivel Joint Code Silver

Style	CWP (psi)	End Connection	1 1/2 (Inch)				2 (Inch)			
			A	B	C	Part No.	A	B	C	Part No.
10	6,000	Threaded	-	-	-	-	6.45	5.98	5.98	S02D011014
20	6,000	Threaded	5.50	-	-	S1HD021014	6.65	-	-	S02D021014
30	6,000	Threaded	-	-	-	-	4.00	5.82	-	S02D031014
40	6,000	Threaded	-	-	-	-	4.00	5.98	-	S02D041014
50	6,000	Threaded	3.14	4.81	4.51	S1HD051014	4.00	5.82	5.98	S02D051014
60	6,000	Threaded	-	-	-	-	5.82	5.82	-	S02D061014
70	6,000	Threaded	-	-	-	-	4.00	5.98	5.98	S02D071014
80	6,000	Threaded	-	-	-	-	4.00	5.98	5.82	S02D081014

Swivel Joint Code Silver Repair Kit

NO	Item	Part No.		Q'ty
		1 1/2"	2"	
-	Repair Kit Set	S1HDRK130	S02DRK130	-
1	Dust Seal	S1HDRK136	S02DRK136	1
2	Pressure Seal	S1HDRK116	S02DRK116	1
3	Ball	(a)S1HDRK111	S02DRK111	52
4	Nipple Nut O-Ring	S1HDRK120	S02DRK120	1
5	Nipple Nut	S1HDRK121	S02DRK121	1
6	Grease Fitting	S02DRK123	S02DRK123	1
7	Split Pin	-	S02DRK139	1

(a) 54 Q'ty

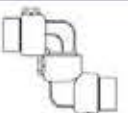
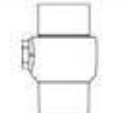
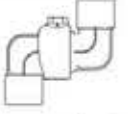
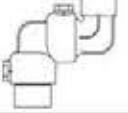
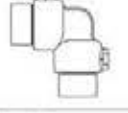
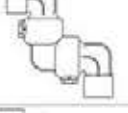
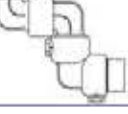
SWIVEL JOINTS

CODE BLUE / CODE GREEN

Features

- SMI Swivel Joints Code Blue and Code Green are designed for standard service applications, with Code Blue handling up to a CWP of 1,000 psi and Code Green up to 600 psi.
- These Swivel Joints are made from ductile cast iron with heat treatment for added strength and durability in low-pressure environments.
- Each product is serialized and pressure tested to 1.5 times the NSCWP to ensure reliability.
- They feature a female thread end connection and are suitable for water lines.
- Size : 2", 3" (For all styles)
- Service : Standard, Sour gas
- Working Pressure : 1,000psi (Code Blue)
600psi (Code Green)



Style		Part No.			
		Code Blue		Code Green	
		2"	3"	2"	3"
	10	S02J011014	S03J011014	S02G011014	S03G011014
	20	S02J021014	S03J021014	S02G021014	S03G021014
	30	S02J031014	S03J031014	S02G031014	S03G031014
	40	S02J041014	S03J041014	S02G041014	S03G041014
	50	S02J051014	S03J051014	S02G051014	S03G051014
	60	S02J061014	S03J061014	S02G061014	S03G061014
	70	S02J071014	S03J071014	S02G071014	S03G071014
	80	S02J081014	S03J081014	S02G081014	S03G081014

STEEL HOSE LOOPS

CODE RED / CODE SILVER

Features

- SMI Steel Hose Loops are available in 2" and 3" nominal pipe sizes, designed for use in cementing lines, water lines, well testing lines, and other applications.
- Long Radius Cementing Steel Hose Loops can handle pressures up to 15,000 psi, while Short Radius Cementing Steel Hose Loops are suitable for pressures up to 6,000 psi.
- The styles of SMI Steel Hose Loops are customizable, with lengths adjustable to meet customer requirements.
- Size : 2", 3" (Style 50&10 / Style 50&50)
- Service : Standard, Sour gas
- Working Pressure : 15,000psi (Code Red) / 6,000psi (Code Silver)

Code Red (15,000psi / 10,000psi)



Size	CWP (psi)	Swivel Joint Styles	Part No.		
			8 ft	10 ft	12 ft
2"	15,000	High Pressure Style 50 & Style 10	ST2F110108A	ST2F110110A	ST2F110112A
		High Pressure Style 50 & Style 50	ST2F210108A	ST2F210110A	ST2F210112A
3"	10,000	High Pressure Style 50 & Style 10	ST3F110108A	ST3F110110A	ST3F110112A
		High Pressure Style 50 & Style 50	ST3F210108A	ST3F210110A	ST3F210112A

Code Silver (6,000psi)



Size	CWP (psi)	Swivel Joint Styles	Part No.		
			8 ft	10 ft	12 ft
2"	6,000	Code Silver Style 50 & Style 10	ST2D110108	ST2D110110	ST2D110112
		Code Silver Style 50 & Style 50	ST2D210108	ST2D210110	ST2D210112

STANDPIPE MANIFOLD FITTINGS



Product Descriptions

STANDPIPE MANIFOLD FITTINGS

- 39 LONG SWEEP ELBOW 45°
LONG SWEEP ELBOW 90°
LONG SWEEP FULL FLOW TEE
FULL FLOW CROSS

STANDPIPE MANIFOLD FITTINGS

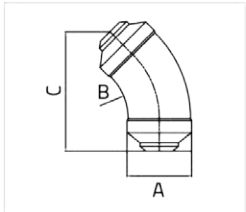
Features

- SMI Standpipe Manifold Fittings are designed for both standard pressure and high-pressure mud manifolds, offering versatility for various applications.
- There are six standard configurations which are prepped for standard butt weld connections.
- These fittings are available in Schedule XXH Butt Weld, Schedule 160 Butt Weld, and Line Pipe connections.
- Made from ASTM A487 Grade 4 Class D material, they provide robust performance with a minimum tensile strength of 100 ksi and a minimum yield strength of 75 ksi, ensuring durability and reliability under demanding conditions.
- Size : 2", 3", 4", 5"
- Service : Standard
- Working Pressure : 10,000psi (Max)



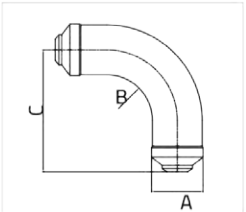
STANDPIPE
MANIFOLD FITTINGS

Long Sweep
Elbow 45°



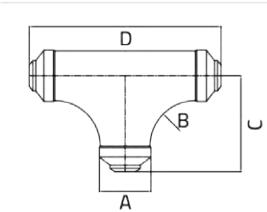
Size	Dimension		
	A	B	C
2	3.39	4.26	7.93
3	5.91	5.25	10.89
4	5.91	5.25	10.89
5	7.75	5.38	11.52

Long Sweep
Elbow 90°



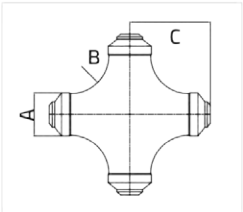
Size	Dimension		
	A	B	C
2	3.39	4.26	8.00
3	5.91	5.25	14.00
4	5.91	5.25	14.00
5	7.75	5.38	16.00

Long Sweep
Full Flow Tee



Size	Dimension			
	A	B	C	D
2	3.39	4.26	8.00	16.00
3	5.91	5.25	11.00	22.00
4	5.91	5.25	11.00	22.00
5	7.75	5.38	12.00	24.00

Full Flow Cross



Size	Dimension		
	A	B	C
3	5.91	5.25	11.00
4	5.91	5.25	11.00
5	7.75	5.38	12.00

FLEXIBLE HOSES

FRAC HOSES



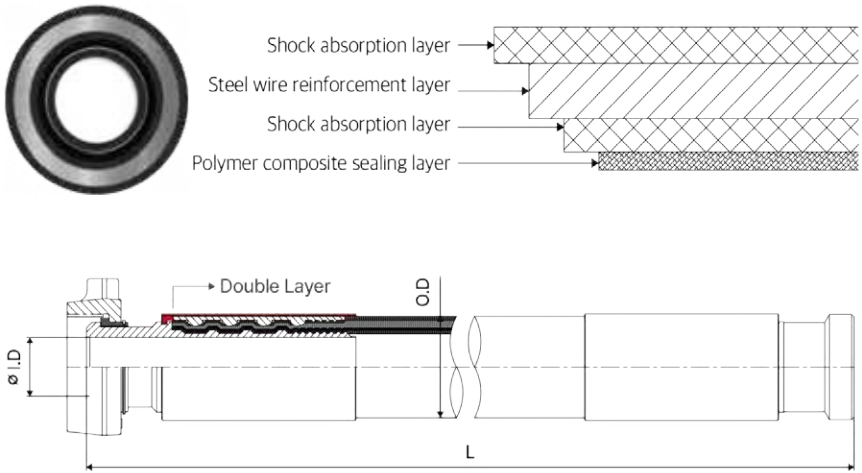
Features

- SMI Frac Hoses are available with 3" 1502 hammer union, hub, and flange connections.
- The Frac hose is suitable for Sour gas oil, brine, fracturing fluid, proppant and other mediums.
- They operate effectively within a temperature range of -20°C to 121°C.
- The hose construction includes a polymer composite sealing layer, a shock absorption layer, a steel wire reinforcement layer, another shock absorption layer, and a rubber outer layer, ensuring durability and reliability.
- SMI Frac Hoses come with a 2,700-hour usage warranty, providing assurance of their long-lasting performance in demanding fracturing applications.
- Hose Size : 2", 2-1/2", 3"
- Service : Standard, Sour gas
- Working Pressure : 15,000psi

CRIMPED FRAC HOSE



Structure



- The Frac hose consists of hose body and end connector.
- The hose body is successively composed of a polymer composite sealing layer, a shock absorption layer, steel wire reinforcement layer, a shock absorption layer, a rubber outer layer from inside to outside, as shown in the picture below.
- Manufactured in accordance with API 7K standards

Table 1 – Length Tolerances for Acidizing Frac Hose Assemblies

Length of hose assembly (ft)	Tolerance of hose assembly length under hydrostatic pressure % Total length
$L \leq 20$	$\pm 65 \text{ mm}(2-1/2 \text{ in.})$
$L > 20$	$\pm 2\%$

Specification

Size	I.D.	O.D.	W.P.	T.P.	*MBP	*MBR		W.T		Volume		Connector W.T	
inch	mm	mm	psi	psi	psi	mm	ft	kg/m	lb/ft	bbl/min	m³/min	kg	lb/set
2"	51.00	107.00	15,000	22,500	33,750	1,400	4.59	20.00	13.00	12.00	1.91	55.00	121.00
2-1/2"	64.00	126.00	15,000	22,500	33,750	1,500	4.92	27.00	18.00	18.50	2.90	58.00	128.00
3"	76.00	145.00	15,000	22,500	33,750	1,600	5.25	35.00	24.00	26.00	4.13	65.00	143.00

• MBP : Minimum Burst Pressure / MBR : Minimum Bending Radius
• The table above is for 3" 1502 end connections.

TRASH CATCHERS

BEST LEAD TIME AND OPTIMIZED STOCK SYSTEM

SMI assures the shortest lead time in the world based on the optimized stock system. We need only a 2-week lead time from the purchase order to shipment for standard products.

Product Descriptions

TRASH CATCHERS

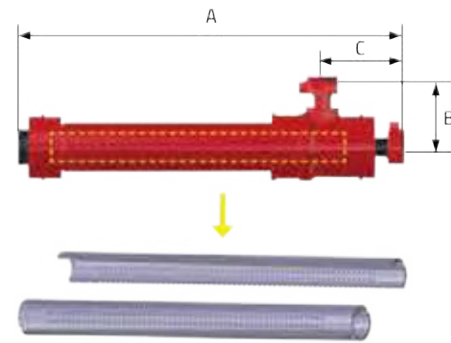
44 TRASH CATCHERS



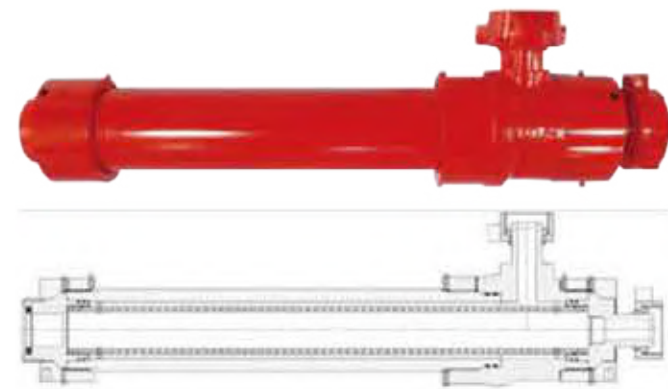
TRASH CATCHERS

Features

- SMI Trash Catchers are designed for reliable performance at high working pressures.
- Engineered for easy handling and constructed from the highest quality materials.
- These trash catchers feature a screen size of 4" pipe SCH XH × 4.13 FT (660-Ø 3/8" hole) and a vessel size of O.D. 7.2" / I.D. 5.0" pipe, all made from P110 steel.
- All parts are coated with black oxide for enhanced durability.
- Size : 3"x2", 3"x3"
- Service : Standard, Sour gas
- Working Pressure : 15,000psi (Standard) / 10,000psi (Sour gas)

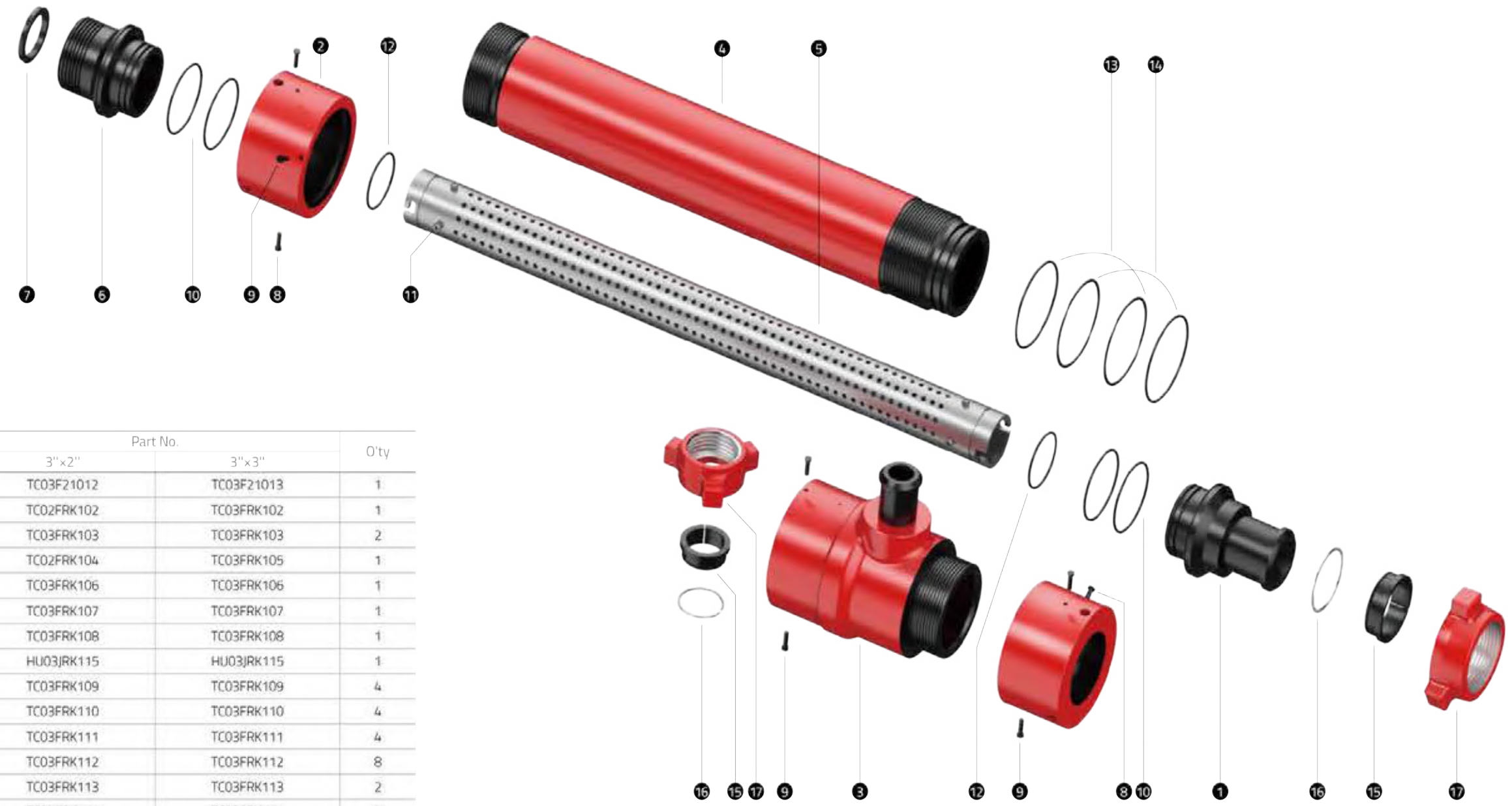


4" XH Screen



단위 : mm(inch)

Size	Service	Working Pressure(psi)	Test Pressure	Type	A	B	C	Part Number
3"x2"	Standard	15,000	22,500	1502 MxF	1540.51 (60.65")	239.01 (9.41")	305.81 (12.04")	TC03F21012
	Sour gas	10,000	15,000					TC03F22012
3"x3"	Standard	15,000	22,500	1502 MxF	1540.51 (60.65")	231.90 (9.13")	319.02 (12.56")	TC03F21013
	Sour gas	10,000	15,000					TC03F22013



Trash Catcher

NO	Item	Part No.		Q'ty
		3"x2"	3"x3"	
Ass'y	Trash Catcher	TC03F21012	TC03F21013	1
1	Plug Male	TC02FRK102	TC03FRK102	1
2	Plug Nut	TC03FRK103	TC03FRK103	2
3	Outlet Tee	TC02FRK104	TC03FRK105	1
4	Vessel Body	TC03FRK106	TC03FRK106	1
5	Strainer (Screen)	TC03FRK107	TC03FRK107	1
6	Plug Female	TC03FRK108	TC03FRK108	1
7	Lip Seal	HU03JRK115	HU03JRK115	1
8	Dog Screw	TC03FRK109	TC03FRK109	4
9	Lock Screw	TC03FRK110	TC03FRK110	4
10	O-Ring A	TC03FRK111	TC03FRK111	4
11	Balance Screw	TC03FRK112	TC03FRK112	8
12	O-Ring B	TC03FRK113	TC03FRK113	2
13	Back up Ring-Rubber	TC03FRK114	TC03FRK114	2
14	O-Ring C	TC03FRK115	TC03FRK115	2
15	Segments	HU02JRK113	HU03JRK113	6
16	Retainer Ring	HU02JRK114	HU03JRK114	2
17	Wing Nut	HU02JRK104	HU03JRK104	2

MANIFOLDS

EXPERTISE IN ADVANCED TECHNOLOGIES AND SAFETY

We have our own bending solution for high pressure Swivel Joint, and Advanced production system for Integral Pup Joint. We do 100% Pressure Test and provide Test Certificates in accordance with API and customer's requirements.

Product Descriptions

MANIFOLDS

- 48 CHOKE MANIFOLDS
- 49 TRASH CATCHER MANIFOLDS

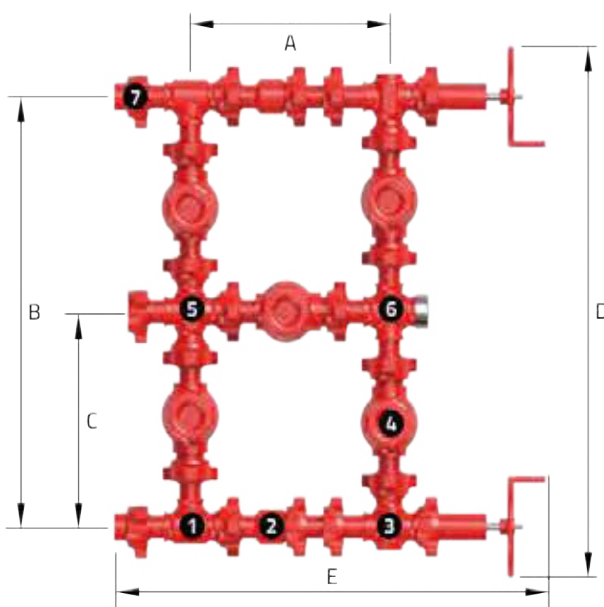
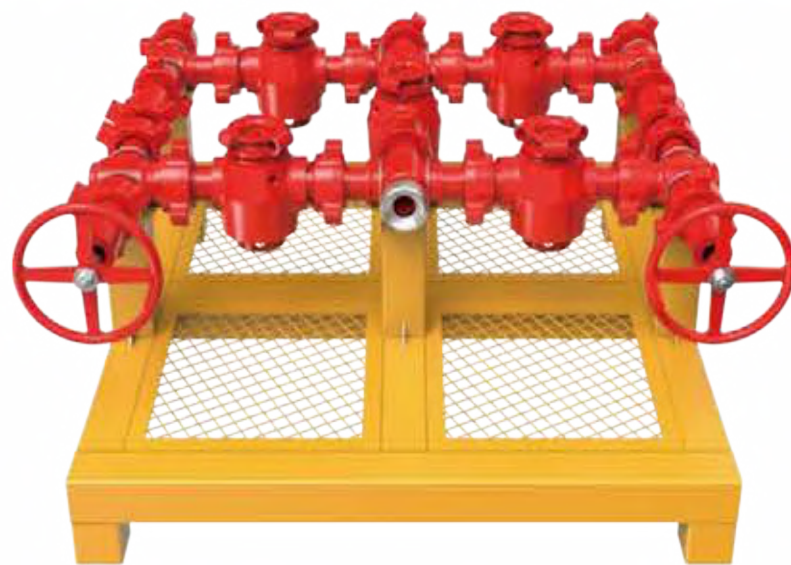


CHOKES MANIFOLDS

Features

- SMI Choke Manifolds are custom-designed and manufactured to meet specific customer requirements, including configurations with 4, 7, 8, or 9 valves.
- They are suitable for use in cementing, flowback, well testing, and other critical applications, ensuring robust and adaptable solutions for demanding environments.
- Size : 2", 3"
- Service : Standard
- Working Pressure : 15,000psi (Standard)

Choke Manifolds



Choke Manifold

NO	Item	Q'ty
Ass'y	Manifold -5 Plug Valve and, 2 Adjustable Choke Valve	1
1	Tee	2
2	Blast Joint	2
3	Adjustable Choke	2
4	Plug Valve	5
5	Cross (FFFM)	1
6	Cross (MMMM)	1
7	Blind Female	2

단위 : inch

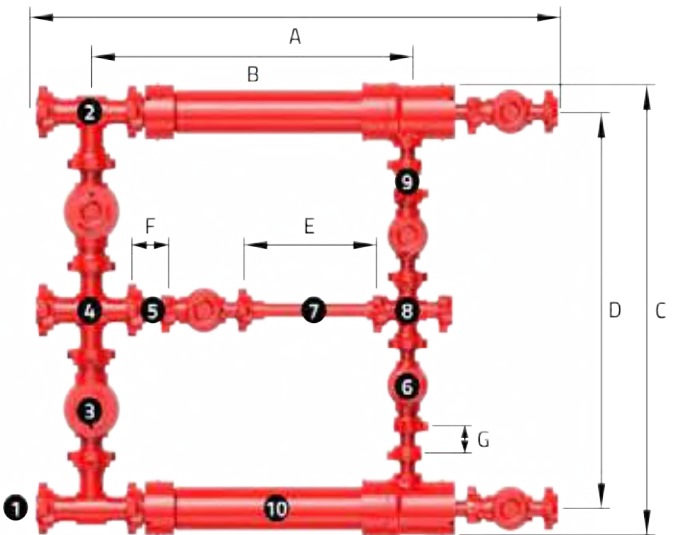
Size	Working Pressure(psi)	Dimensions (Inch)					Remarks
		A	B	C	D	E	
2"	15,000 (Standard Service)	25.19	50.41	25.20	62.40	55.57	-
3"	15,000 (Standard Service)	32.27	64.58	32.29	78.47	62.88	-

TRASH CATCHER MANIFOLDS

Features

- SMI Trash Catcher Manifolds are available in both single and dual manifold types, with custom combinations available upon customer request.
- They come in sizes of 2"x2", 3"x2", and 3"x3", providing robust and adaptable performance to meet a variety of needs.
- Size : 2", 3"
- Service : Standard
- Working Pressure : 15,000psi (Standard)

Trash Catcher Manifolds



Trash Catcher Manifold

NO	Item	Q'ty
Ass'y	3"x2" Dual Trash Catcher, 7 Valve Manifold	1
1	3" Fig 1502 Blind Male & Nut	2
2	3" Fig 1502 Tee (FFM)	2
3	3" Fig 1502 Plug Valve	2
4	3" Fig 1502 Cross (FMMM)	1
5	3"x2" Fig 1502 Crossover	1
6	2" Fig 1502 Plug Valve	5
7	2" Fig 1502 Pup Joint (24inch)	1
8	2" Fig 1502 Cross (MFFF)	1
9	2" Fig 1502 Blast Joint	2
10	3"x2" Fig 1502 Trash Catcher	2

단위 : inch

Size	Working Pressure(psi)	Dimensions (Inch)							Remarks
		A	B	C	D	E	F	G	
2"	15,000 (Standard Service)	92.70"	55.72"	74.28"	64.54"	24.00"	6.25"	5.00"	-
3"	15,000 (Standard Service)	95.42"	55.72"	94.17"	84.42"	23.82"	-	9.19"	-

CONNECTORS

CERTIFIED QUALITY MANAGEMENT

SMI manages quality in accordance with API Q1 and ISO 9001 : 2015 and educates all staffs according to SMI's own training plan. We use only the best quality material supplied by the certified steel manufacturer and the manufacturing process for each product is completed in one place so that SMI can easily trace the product manufacturing history, showing the traceability by documents that we offer.

Product Descriptions

HAMMER UNIONS

- 53 FIG 50 / FIG 100 / FIG 110
- 54 FIG 200 / FIG 206
FIG 200-206 SPLIT NUT
- 55 FIG 207 / FIG 300
FIG 301 / FIG 400
- 56 FIG 602 / FIG 607 (CGC)
FIG 1002
- 57 FIG 1003 / FIG 1502
FIG 2202

ADAPTERS

- 58 UNION THREAD x UNION NUT
- 59 UNION THREAD x UNION THREAD
UNION NUT x UNION NUT

HUB CLAMPS

- 60 SMI-LOCK
- 62 API 16A

API FLANGES

- 63 THREADED FLANGE
WELD-NECK LINE PIPE FLANGE
API 6A-TYPE 6BX WELD NECK FLANGE



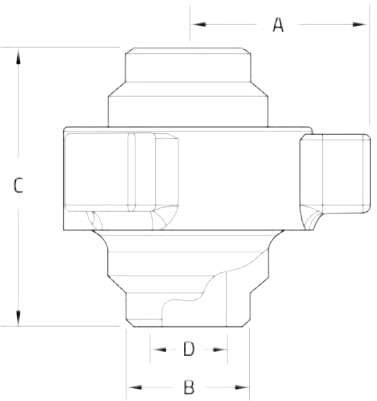
HAMMER UNIONS

Features

- SMI Hammer Unions are produced through steel forging or casting with materials selected to meet specific pressure ratings, ensuring durability and reliability.
- They offer a choice of end connections, with API line pipe threads as standard, and Butt Weld Ends available upon request (with the pipe schedule specified by the customer)
- Designed to handle sour gas, all sour gas service parts conform to the latest NACE specifications.
- Additionally, all SMI Hammer Union nuts feature three hammer lugs for secure and efficient connections.

Figure	Type	Standard Service Color Code		Nominal Pipe Size (Inches)											
		Male/Female	Nut	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6	8	10
50	Thread											•			
	Butt Weld											•			
100	Thread							•	•	•	•	•	•	•	•
	Butt Weld							•		•	•	•	•	•	•
110	Thread							•							
200	Thread			•	•	•	•	•	•	•	•	•	•	•	•
	Butt Weld			•		•	•	•	•	•	•	•	•	•	•
200/206 Split Nut											•				
206	Thread			•		•	•	•	•	•	•	•	•	•	•
	Butt Weld			•		•	•	•	•	•	•	•	•	•	•
207	Thread					•	•			•	•		•	•	
	Butt Weld									•	•		•	•	
300	Thread			•				•							
301	Thread				•			•							
400	Thread							•		•	•				
	Butt Weld							•			•		•		
602	Thread			•			•	•		•	•				
	Butt Weld			•			•	•		•	•				
607(CGC)	Thread				•	•	•								
1002	Thread			•				•		•	•	•			
	Butt Weld			•				•		•	•	•	•		
1003	Thread										•				
	Butt Weld										•	•			
1502	Thread			•				•		•	•				
	Butt Weld			•				•		•	•	•	•		
2202	Butt Weld							•		•	•	•	•		

Butt Weld type



Thread type

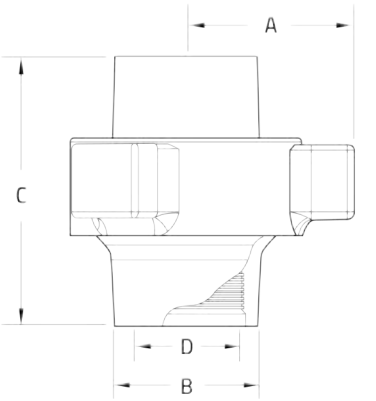


Fig 50



Dim	5"	
WT.	THD	B/W(SCH40)
A	5 5/64	5 5/64
B	6 13/32	5 9/32
C	5 51/64	5 51/64
D	5 11/32	5 3/64
WT(lb)	23.90	23.90
P/N	HU05M1101	HU05M2101

Fig 100



Dim	2"		2-1/2"	3"		4"	
WT.	THD	B/W (SCH40)	THD	THD	B/W (SCH80)	THD	B/W (SCH40)
A	2 29/32	2 29/32	2 29/32	4	4	4 23/64	4 23/64
B	2 53/64	2 3/8	2 23/64	4 1/16	3 1/2	5 13/64	4 1/2
C	3 13/32	3 9/32	4 25/64	4 7/8	4 37/64	5 3/4	4 9/16
D	2 5/32	2 1/32	2 37/64	3 13/64	2 29/32	4 3/16	4 1/64
WT(lb)	5.73	5.68	11.33	14.20	14.20	19.36	19.36
P/N	HU02A1101	HU02A2101	HU2HA1101	HU03A1101	HU03A3101	HU04A1101	HU04A2101

Dim	5"		6"		8"		10"	
WT.	THD	B/W (SCH40)	THD	B/W (SCH80)	THD	B/W (SCH80)	THD	B/W (SCH80)
A	5 17/32	5 17/32	6 57/64	6 57/64	7 3/4	7 3/4	10 5/16	10 5/16
B	6 13/32	5 9/16	7 13/32	6 5/8	9 15/32	8 5/8	11 3/4	10 3/4
C	6 5/8	5 57/64	6 23/32	6 17/64	7 3/16	7 3/16	9 3/16	9 3/16
D	5 1/8	5 3/64	6 9/32	5 3/4	8 1/4	7 5/8	10	10
WT(lb)	34.70	35.93	45.06	47.84	71.56	81.87	105.82	108.56
P/N	HU05A1101	HU05A2101	HU06A1101	HU06A3101	HU08A1101	HU08A3101	HU10A1101	HU10A5101

Fig 110



2,500psi

4,000psi

Dim	2" (2,500psi)		2" (4,000psi)	
WT.	THD		THD	
A	3 13/64		3 59/64	
B	2 13/16		3 5/64	
C	3 51/64		5 43/64	
D	2 1/8		2 7/64	
WT(lb)	7.14		13.43	
P/N	HU02V1101		HU02R1101	

HAMMER UNIONS

Fig 200



Dim	1"		1-1/4"		1-1/2"		2"		2-1/2"		3"	
WT.	THD	B/W(SCH40)	THD	THD	B/W(SCH80)	THD	B/W(SCH80)	THD	B/W(SCH40)	THD	B/W(SCH80)	
A	1 29/32	1 29/32	2 1/4	2 23/64	2 23/64	2 7/8	2 7/8	3 9/16	3 9/16	4	4	
B	1 19/32	1 5/16	2 1/64	2 9/32	1 29/32	2 53/64	2 3/8	3 3/8	2 7/8	4 1/16	3 1/2	
C	2 13/32	2 1/2	2 25/32	2 51/64	2 19/32	3 13/32	3 17/64	4 9/64	4 9/64	4 35/64	4 41/64	
D	1 1/8	1 3/64	1 7/16	1 45/64	1 1/2	2 5/32	2 5/64	2 9/16	2 15/32	3 13/64	3 5/64	
WT(lb)	1.23	1.23	2.64	2.97	2.99	5.32	5.86	11.08	11.08	14.40	15.39	
P/N	HU01B1101	HU01B2101	HU11B1101	HU11B1101	HU11B3101	HU02B1101	HU02B5101	HU21B1101	HU21B2101	HU03B1101	HU03B3101	

Dim	4"		5"		6"		8"		10"	
WT.	THD	B/W(SCH80)	THD	B/W(SCH80)	THD	B/W(SCH80)	THD	B/W(SCH80)	THD	B/W(SCH80)
A	4 17/32	4 17/32	5 3/4	5 3/4	6 1/4	6 1/4	7 3/4	7 3/4	10 5/16	10 5/16
B	5 13/64	4 1/2	6 1/4	5 9/16	7 1/2	6 5/8	9 15/32	8 5/8	11 3/4	10 3/4
C	4 15/16	5	7 1/32	6 55/64	6 21/32	6 1/4	7 3/16	7 3/16	9 3/16	9 3/16
D	4 3/16	4 1/32	5 1/8	4 13/16	6 9/32	6 5/64	8 1/4	7 5/8	10	10
WT(lb)	19.30	20.42	34.34	35.93	43.30	47.42	71.69	81.87	105.82	108.66
P/N	HU04B1101	HU04B3101	HU05B1101	HU05B3101	HU06B1101	HU06B3101	HU08B1101	HU08B3101	HU10B1101	HU10B3101

Fig 200/206
Split Nut



Dim	4"	
WT.	-	
A	4 11/16	
B	-	
C	-	
D	-	
WT(lb)	8.03	
P/N	HU04BRK140	

Fig 206



Dim	1"		1-1/2"		2"		2-1/2"		3"	
WT.	THD	B/W(SCH40)	THD	B/W(SCH80)	THD	B/W(SCH80)	THD	B/W(SCH40)	THD	B/W(SCH80)
A	1 29/32	1 29/32	2 23/64	2 23/64	2 7/8	2 7/8	3 9/16	3 9/16	4	4
B	1 19/32	1 5/16	2 9/32	1 29/32	2 53/64	2 3/8	3 3/8	2 7/8	4 1/16	3 1/2
C	2 13/32	2 1/2	2 51/64	2 19/32	3 13/32	3 17/64	4 9/64	4 9/64	4 35/64	4 41/64
D	1 1/8	1 3/64	1 45/64	1 1/2	2 5/32	2 5/64	2 9/16	2 15/32	3 13/64	3 5/64
WT(lb)	1.23	1.23	2.97	2.99	5.32	5.86	8.95	11.19	14.40	15.39
P/N	HU01C1101	HU01C2101	HU11C1101	HU11C3101	HU02C1101	HU02C5101	HU21C1101	HU21C2101	HU03C1101	HU03C3101

Dim	4"		5"		6"		8"		10"	
WT.	THD	B/W(SCH80)	THD	B/W(SCH80)	THD	B/W(SCH80)	THD	B/W(SCH80)	THD	B/W(SCH80)
A	4 17/32	4 17/32	5 3/4	5 3/4	6 1/4	6 1/4	7 3/4	7 3/4	10 5/16	10 5/16
B	5 13/64	4 1/2	6 1/4	5 9/16	7 1/2	6 5/8	9 15/32	8 5/8	11 3/4	10 3/4
C	4 15/16	5	7 1/32	6 55/64	6 21/32	6 1/4	7 3/16	7 3/16	9 3/16	9 3/16
D	4 3/16	4 1/32	5 1/8	4 13/16	6 9/32	6 5/64	8 1/4	7 5/8	10	10
WT(lb)	19.30	20.42	35.58	37.45	43.30	47.42	71.69	80.00	105.82	108.66
P/N	HU04C1101	HU04C3101	HU05C1101	HU05C3101	HU06C1101	HU06C3101	HU08C1101	HU08C3101	HU10C1101	HU10C3101

Fig 207



Dim	1-1/2"		2"		3"		4"	
WT.	THD	THD	THD	B/W(SCH80)	THD	B/W(SCH80)	THD	B/W(SCH80)
A	2 13/64	2 1/16	2 7/8	2 7/8	3 21/32	3 21/32		
B	2 9/32	2 53/64	4 1/8	3 1/2	5 13/64	4 1/2		
C	1 31/32	3	3 23/32	3 25/32	4 49/64	4 49/64		
D	1 45/64	2 5/32	3 13/64	2 29/32	4 3/16	3 53/64		
WT(lb)	7.43	4.44	10.61	10.95	18.24	18.56		
P/N	HU1HG1101	HU02G1101	HU03G1101	HU03G3101	HU04G1101	HU04G3101		

Dim	6"		8"	
WT.	THD	B/W(SCH80)	THD	B/W(SCH80)
A	5	5	6 7/64	6 7/64
B	7 1/4	6 5/8	9 15/32	8 5/8
C	5 39/64	5 39/64	7 1/4	7 1/4
D	6 31/64	5 3/4	8 1/4	7 5/8
WT(lb)	37.48	38.31	74.00	65.00
P/N	HU06G1101	HU06G3101	HU08G1101	HU08G3101

Fig 300



Dim	3/4"		2"	
WT.	THD		THD	
A	1 53/64		2 55/64	
B	1 1/2		2 57/64	
C	3 1/16		3 51/64	
D	7/8		2 7/64	
WT(lb)	2.07		6.48	
P/N	HU0TQP1101		HU02P1101	

Fig 301



Dim	1"		2"	
WT.	THD		THD	
A	1 29/32		2 7/8	
B	1 19/32		2 53/64	
C	2 13/32		3 13/32	
D	1 1/8		2 5/32	
WT(lb)	1.23		5.82	
P/N	HU01T1101		HU02T1101	

Fig 400



Dim	2"		3"		4"		6"	
WT.	THD	B/W(SCH80)	THD	THD	B/W(SCHXXH)	B/W(SCH160)		
A	3 3/8	3 3/8	4	5	5	6 57/64		
B	2 53/64	2 3/8	4 1/16	5 13/64	4 1/2	6 5/64		
C	3 5/8	5 7/64	4 7/8	5 3/4	9	7 17/64		
D	2 5/32	1 15/16	3 13/64	4 3/16	3 5/32	5 3/16		
WT(lb)	11.20	11.30	20.15	29.59	45.19	74.30		
P/N	HU02D1101	HU02D3101	HU03D1101	HU04D1101	HU04D5101	HU04D4101		

HAMMER UNIONS

Fig 602



Dim	1"		1-1/2"	2"	
WT.	THD	B/W (SCHXXH)	THD	THD	B/W (SCHXXH)
A	2 1/4	2 1/4	3 9/64	3 1/2	3 1/2
B	1 3/4	1 5/16	2 37/64	3	2 25/64
C	3 17/32	3 17/32	4 57/64	5 1/4	5 1/16
D	1 1/9	19/32	1 11/16	2 1/16	1 1/2
WT(lb)	3.80	3.57	10.36	12.60	13.90
P/N	HU01E1101	HU01E5101	HU1HE1101	HU02E1101	HU02E5101

Dim	3"		4"	
WT.	THD	B/W (SCHXXH)	THD	B/W (SCHXXH)
A	4 1/2	4 1/2	5 5/16	5 5/16
B	4 1/4	3 1/2	5 1/3	4 1/2
C	6 1/4	5 7/16	8 7/32	5 43/64
D	3 3/16	3 5/64	4 1/64	3 5/32
WT(lb)	25.00	26.40	37.00	35.00
P/N	HU03E1101	HU03E5101	HU04E1101	HU04E5101

Fig 607 (CGC)



Dim	1-1/4"	1-1/2"	2"
WT.	THD	THD	THD
A	2 15/32	2 51/64	3 33/64
B	2 3/16	2 35/64	2 29/32
C	4 1/64	4 7/64	5 25/32
D	1 7/16	1 11/16	2 1/16
WT(lb)	4.41	7.25	13.50
P/N	HU1HS1101	HU1HS1101	HU02S1101

Fig 1002



Dim	1"		2"		3"	
WT.	THD	B/W (SCHXXH)	THD	B/W (SCHXXH)	THD	B/W (SCHXXH)
A	2 1/4	2 1/4	3 1/2	3 1/2	4 1/2	4 1/2
B	1 3/4	2 53/64	3	2 25/64	4 1/4	3 1/2
C	3 17/32	2 29/32	5 1/4	5 1/16	6 1/4	5 7/16
D	1 1/9	2 53/64	2 1/16	1 15/16	3 3/16	3 5/64
WT(lb)	3.80	3.57	12.60	10.47	25.80	26.80
P/N	HU01F1101	HU01F5101	HU02F1101	HU02F5101	HU03F1101	HU03F5101

Dim	4"		5"		6"
WT.	THD	B/W (SCHXXH)	THD	B/W (SCHXXH)	B/W (SCHXXH)
A	5 5/16	5 5/16	6 3/16	6 3/16	6 59/64
B	5 1/3	5 1/9	6 39/64	4 7/64	6 5/8
C	8 7/32	6 3/16	7 5/8	6 3/16	8 3/64
D	4 1/64	4 13/16	4 9/16	4 13/16	5 49/64
WT(lb)	37.04	34.97	61.50	62.50	115.63
P/N	HU04F1101	HU04F5101	HU05F1101	HU05F5101	HU06F5101



Fig 1003



Dim	4"		5"
WT.	THD	B/W (SCHXXH)	B/W (SCHXXH)
A	6 1/32	6 1/32	6 1/32
B	6 1/32	4 1/2	5 9/16
C	10 15/16	10 15/16	10 15/16
D	5 1/9	3 5/32	4 1/16
WT(lb)	78.99	99.45	104.60
P/N	HU04K1101	HU04K5101	HU05K5101

Fig 1502



Dim	1"		2"		3"	
WT.	THD	B/W (SCHXXH)	THD	B/W (SCHXXH)	THD	B/W (SCHXXH)
A	3 1/32	3 1/32	3 21/32	3 21/32	4 1/2	4 1/2
B	2 1/5	1 21/64	3 1/6	2 25/64	4 2/5	3 1/2
C	4 21/64	4 23/64	7 1/32	6 1/4	7 5/8	5 1/4
D	1 1/9	3/7	2 1/16	1 1/2	3 3/16	2 9/32
WT(lb)	9.50	9.26	19.50	20.00	32.10	30.42
P/N	HU01J1101	HU01J5101	HU02J1101	HU02J5101	HU03J1101	HU03J5101

Dim	4"		5"	6"
WT.	THD	B/W (SCHXXH)	BW(SCHXXH)	B/W (SCHXXH)
A	5 29/32	5 29/32	6 15/32	7 31/64
B	5 3/4	4 1/2	5 1/2	6 1/2
C	8 1/2	8 1/2	9	9 1/4
D	4 1/64	3 11/64	4 1/64	4 1/4
WT(lb)	74.52	78.10	50.00	67.80
P/N	HU04J1101	HU04J5101	HU05J5101	HU06J5101

Fig 2202



Dim	2"	3"	4"	5"	6"
WT.	B/W (SCHXXH)	B/W (SCHXXH)	B/W (SCHXXH)	B/W (SCHXXH)	B/W (SCHXXH)
A	3 3/4	6 3/32	6 5/64	9 1/4	11 1/4
B	2 19/32	5 1/2	4 1/2	5 1/2	6 1/2
C	7 13/32	10 1/2	8 5/64	10 3/4	10
D	1 5/16	3	3	4 1/64	4 1/4
WT(lb)	25.53	9.27	89.07	55.20	74.70
P/N	HU02L5101	HU03L5101	HU04L5101	HU05L5101	HU06L5101

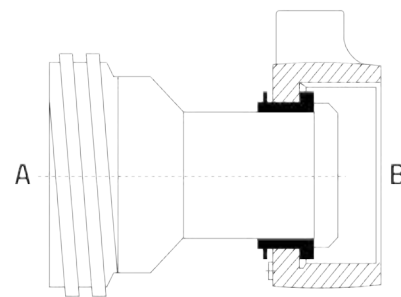
ADAPTERS

CROSSOVER

Features

- SMI Crossovers can be customized to meet specific customer specifications and can be configured in various types, including Union Thread x Union Nut, Union Thread x Union Thread, and Union Nut x Union Nut.
- This flexibility ensures that SMI Crossovers can be tailored to fit a wide range of applications and connection needs.

Union Thread x Union Nut



NO.	End Connections		Length (In)	ID (In)
	A	B		
1	1"-1002	2"-1502	6.00	1.00
2	1"-1502	2"-1502	7.00	1.00
3	1 1/2"-1002	2"-1002	7.00	1.31
4	1 1/2"-1502	1 1/2"-1502	5.75	1.34
5	1 1/2"-1502	1 1/2"-1502	6.62	1.31
6	1 1/2"-1502	2"-1502	5.25	1.31
7	2"-1502	1 1/2"-1002	9.40	1.31
8	2"-1502	1 1/2"-1002	7.00	1.31
9	2"-1502	2"-1502	6.62	1.87
10	2"-1502	2"-2002	6.87	1.30
11	2"-1502	2"-2202	6.87	1.30
12	2"-1502	3"-602	8.00	2.00
13	2"-1502	3"-1502	8.00	2.00
14	2"-1502	3"-1502	8.00	2.00
15	2"-1502	4"-602	7.00	2.00
16	2"-1502	4"-1002	7.00	2.00
17	2"-2002	2"-1502	8.00	1.30
18	2"-2002	2"-2002	7.00	1.30
19	2"-2002	3"-1502	5.00	1.30
20	2"-2202	3"-1502	7.00	1.30
21	2"-2002	3"-1502	7.00	1.30

NO.	End Connections		Length (In)	ID (In)
	A	B		
1	3"-602	4"-602	8.00	3.00
2	3"-602	3"-1502	6.00	3.00
3	3"-1002	2"-1502	7.62	1.87
4	3"-1502	2"-1502	6.94	1.87
5	3"-1502	2"-1502	6.94	1.87
6	3"-1502	3"-602	7.62	3.00
7	3"-1502	2"-2002	7.75	1.30
8	3"-1502	2"-2202	7.75	1.30
9	3"-1502	3"-1502	7.62	3.00
10	3"-1502	4"-602	8.00	3.00
11	3"-1502	4"-1002	8.00	3.00
12	4"-602	3"-602	7.00	2.75
13	4"-602	3"-1502	7.00	2.75
14	4"-1002	3"-1502	6.75	3.00
15	4"-1002	4"-602	12.00	4.00
16	4"-1002	4"-1002	12.00	4.00



Union Thread x Union Thread



NO.	End Connections		Length (In)	ID (In)
	A	B		
1	1"-1502	1 1/2"-1502	5.62	1.00
2	1 1/2"-1502	1 1/2"-1502	5.62	1.31
3	2"-1502	2"-1502	5.75	2.00
4	2"-1502	2"-2002	6.00	1.30
5	2"-1502	3"-1502	6.00	2.06
6	2"-1502	3"-2202	6.00	2.00
7	2"-2002	2"-2002	8.20	1.30
8	2"-2002	3"-1502	6.00	1.30
9	2"-2202	2"-2202	8.20	1.30
10	3"-1502	3"-1502	5.75	3.00
11	4"-602	4"-602	8.18	4.00
12	4"-1002	4"-1002	5.75	4.00

Union Nut x Union Nut



NO.	End Connections		Length (In)	ID (In)
	A	B		
1	1 1/2"-1502	2"-1502	6.75	1.50
2	2"-1002	2"-1502	6.75	1.87
3	2"-1502	2"-1502	6.75	1.94
4	2"-1502	2"-1502	6.75	1.94
5	2"-1502	2"-2002	8.00	1.30
6	2"-1502	3"-1502	8.00	1.87
7	2"-1502	3"-1502	8.00	1.87
8	2"-2002	2"-2002	7.50	1.30
9	2"-2002	3"-1502	8.00	1.30
10	2"-2202	2"-2202	7.50	1.30
11	3"-602	3"-602	6.00	3.00
12	3"-1502	3"-1502	6.00	3.00
13	3"-1502	3"-1502	12.00	2.75
14	4"-602	4"-602	12.00	4.00
15	4"-1002	4"-1002	12.00	4.00

HUB CLAMPS

SMI-LOCK

Features

- SMI Hub Clamps are constructed from high-quality forged materials designed to meet specific pressure ratings.
- Standard materials include A105 carbon steel and AISI 4130 low alloy steel, but they can also be manufactured from various other carbon, low alloy, and stainless steels based on customer requirements.
- This ensures that SMI Hub Clamps can be tailored to meet diverse application needs and performance specifications.



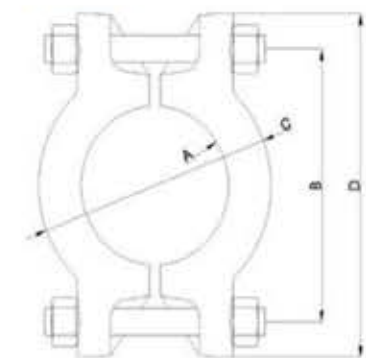
SMI-LOCK Hub Clamp

NO	Item	Q'ty
1	Clamp	2
2	Stud Bolt (B7)	4
3	Nut (2H)	8
4	Hub	2
5	Gasket (PTFE Coated)	1

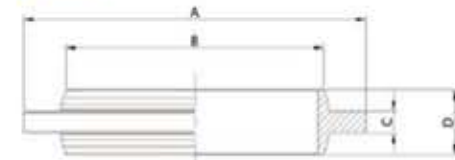


Clamp Size	Clamp ID(A)	Bolt Centres(B)	Clamp OD(C)	Overall Length(D)	Clampset Weight
	ins	mm	ins	mm	Lbs Kg
-	1.69	42.90	3.25	82.60	2.81 71.50
1in	2.69	68.20	5.00	127.00	4.50 114.30
1 1/2in	3.20	81.30	5.75	146.10	5.50 139.70
2in	4.38	111.10	7.50	190.50	13.20 6.00
3in	5.38	136.50	8.50	215.90	8.25 209.60
4in	6.88	174.60	10.25	260.40	9.88 250.80
5in	8.38	212.70	12.63	320.70	12.00 304.80
6in	8.38	212.70	12.63	320.70	15.25 387.40
					70.30 31.90

Clamp

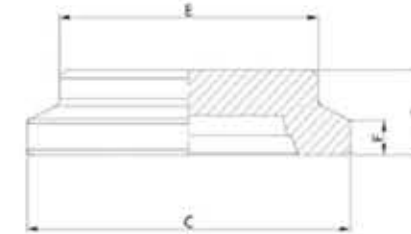


Seal

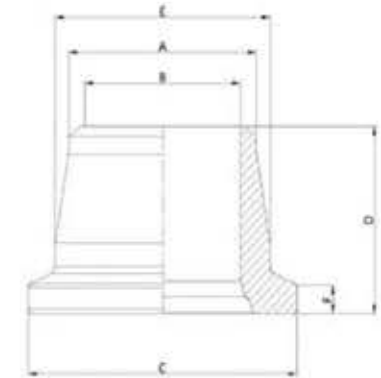


Seal ring Size	Outside Diameter (A)	Inside Diameter (B)	Rib Thickness (C)	Overall Thickness (D)	Sealring Weight
	ins	mm	ins	mm	Lbs Kg
-	1.00	25.40	0.50	12.70	0.12 3.20
4	1.09	27.80	0.62	15.90	0.12 3.20
5	1.09	27.80	0.62	15.90	0.37 9.50
7	1.37	34.90	0.90	23.00	0.12 3.20
11	1.75	44.50	1.12	28.60	0.12 3.20
13	2.37	60.30	1.50	38.10	0.12 3.20
14	2.62	66.70	1.60	40.90	0.25 6.40
16	2.75	69.90	1.86	47.40	0.25 6.40
20	3.25	82.60	2.06	52.40	0.25 6.40
23	3.50	88.90	2.37	60.30	0.25 6.40
25	4.00	102.00	2.67	67.90	0.25 6.40
27	4.25	108.00	3.06	77.80	0.25 6.40
31	4.50	114.00	3.25	82.60	0.25 6.40
34	5.00	127.00	3.68	93.70	0.25 6.40
40	5.50	140.00	4.06	103.00	0.25 6.40
42	6.37	162.00	4.18	106.00	0.25 6.40
46	6.25	159.00	4.75	121.00	0.25 6.40
52	6.62	168.00	5.31	135.00	0.25 6.40
54	6.81	173.00	5.50	140.00	0.25 6.40
56	7.50	191.00	5.75	146.00	0.25 6.40
62	7.87	200.00	6.06	154.00	0.37 9.50
					1.37 34.90
					3.13 1.40

Blind



Hub



N.P.S.O. Dia	DN	Pipe Sch	SMI-LOCK Hub-Gasket No.	Pipe Inside Diameter	Hub Outside Diameter	Hub Length	Backface Diameter	Lip Thickness	Blind Thickness	BW Hub Weight	Blind Hub Weight
(A)				(B)	(C)	(D)	(E)	(F)	(G)	Lbs Kg	Lbs Kg
ins	mm			ins	mm	ins	mm	ins	mm		
1/2"	DN 15	Standard 40 40S	1 SL 5	0.62	15.80	2.00	50.80	1.75	44.50	1.50	38.10
		XS 80 80S	1 SL 5	0.54	13.90	2.00	50.80	1.75	44.50	1.50	38.10
		160	1 SL 4	0.46	11.80	2.00	50.80	1.75	44.50	1.50	38.10
3/4"	DN 20	Standard 40 40S	1 SL 7	0.82	20.90	2.00	50.80	1.75	44.50	1.50	38.10
		XS 80 80S	1 SL 7	0.74	18.80	2.00	50.80	1.75	44.50	1.50	38.10
		160	1 SL 5	0.61	15.60	2.00	50.80	1.75	44.50	1.50	38.10
1"	DN 25	Standard 40 40S	1 SL 11	1.04	26.60	2.00	50.80	1.75	44.50	1.50	38.10
		XS 80 80S	1 SL 11	0.95	24.30	2.00	50.80	1.75	44.50	1.50	38.10
		160	1 SL 7	0.81	20.70	2.00	50.80	1.75	44.50	1.50	38.10
1 1/2"	DN 40	Standard 40 40S	1 1/2 SL 14	1.61	40.90	3.12	79.40	2.37	60.30	2.37	60.30
		XS 80 80S	1 1/2 SL 13	1.50	38.10	3.12	79.40	2.37	60.30	2.37	60.30
		160	1 1/2 SL 13	1.33	34.00	3.12	79.40	2.37	60.30	2.37	60.30
2"	DN 50	Standard 40 40S	2 SL 20	2.06	52.50	3.62	92.10	2.75	69.90	2.87	73.00
		XS 80 80S	2 SL 20	1.93	49.30	3.62	92.10	2.75	69.90	2.87	73.00
		160	2 SL 16	1.68	42.90	3.62	92.10	2.75	69.90	2.87	73.00
3"	DN 75	Standard 40 40S	3 SL 27	3.06	77.90	5.000	127.00	3.25	82.60	4.00	101.60
		XS 80 80S	3 SL 27	2.90	73.70	5.00	127.00	3.25	82.60	4.00	101.60
		160	3 SL 25	2.62	66.60	5.00	127.00	3.25	82.60	4.00	101.60
4"	DN 100	Standard 40 40S	4 SL 40	4.07	102.30	6.00	152.40	3.62	92.10	5.00	127.00
		XS 80 80S	4 SL 40	3.82	97.20	6.00	152.40	3.62	92.10	5.00	127.00
		120	4 SL 34	3.62	92.00	6.00	152.40	3.62	92.10	5.00	127.00
5"	DN 125	Standard 40 40S	5 SL 52	5.04	128.20	7.50	190.50	4.37	111.10	6.50	165.10
		XS 80 80S	5 SL 52	4.81	122.30	7.50	190.50	4.37	111.10	6.50	165.10
		120	5 SL 46	4.56	115.90	7.50	190.50	4.37	111.10	6.50	165.10
6"	DN 150	Standard 40 40S	6 SL 62	6.06	154.10	9.25	235.00	4.62	117.50	7.75	196.90
		XS 80 80S	6 SL 56	5.76	146.30	9.25	235.00	4.62	117.50	7.75	196.90
		120	6 SL 54	5.50	139.70	9.25	235.00	4.62	117.50	7.75	196.90

HUB CLAMPS

API 16A

Features

- SMI Hub Clamps are constructed from high-quality forged materials designed to meet specific pressure ratings.
- Standard materials include A105 carbon steel and AISI 4130 low alloy steel, but they can also be manufactured from various other carbon, low alloy, and stainless steels based on customer requirements.
- This ensures that SMI Hub Clamps can be tailored to meet diverse application needs and performance specifications.

Specification

- Hubs & clamps are designed & manufactured in accordance with below specific requirements
 - Temperature rating - K to Y
 - Material class - AA to EE
 - Bolt & Nut : API 20E/20F
- The complete range of Clamps & Hubs in accordance to API 16A.
- Clamps are operated quickly and easily, making it up even in limited space.
- All clamps have 360° infinite adjustability
- Clamps are reliable to connect hubs and other API connections
- Hubs & clamps have up to pressure range from 2,000 psi to 20,000 psi
- Hubs & clamps are designed & manufactured in accordance with below specific information.



API 16A CLAMP

NO.	Item	Q'ty
1	Stud Bolt	4
2	Hub Clamp	2
3	Nut	8
4	Outer Washer	8
5	Inner Washer	8
6	Hub	2
7	Ring Type Joint Gasket	1
8	Swivel Lifting Eye	6

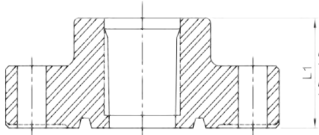
API FLANGES

Features

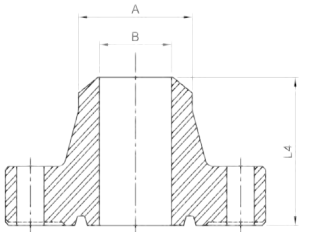
- SMI API Flanges are manufactured according to API standards and can be customized to meet specific customer requirements.
- Each size can be adjusted based on individual needs, ensuring that the flanges provide a precise fit and performance for a wide range of applications.



Threaded Flange

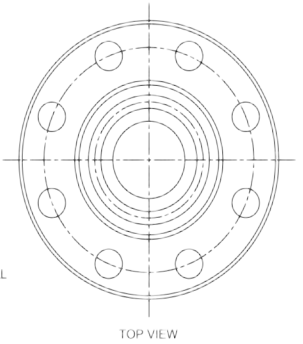


Weld-Neck Line Pipe Flange

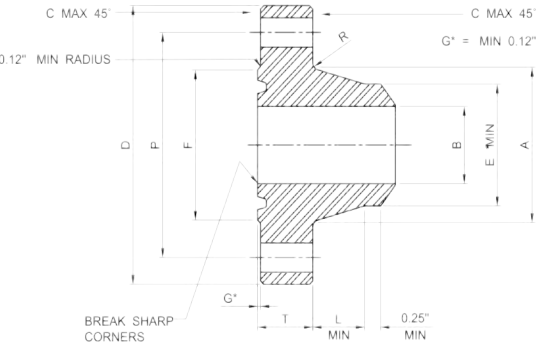


Nominal Size and Bore of Flange	Nominal Size and Bore of Flange	Hub Length Threaded Line-Pipe Flange	Hub Length Threaded Casing Pipe	Hub Length Tubing Flange	Hub Length Welding Nec Line-Pipe Flange	Maximum Bore of Welding Neck Flange
2,000psi	-	L ₁	L ₂	L ₃	L _{4+0.06}	B
	2 1/16	2.56	-	2.56	4.31	1.97
	2 9/16	2.81	-	2.81	4.44	2.35
	3 1/8	2.44	-	2.94	4.31	2.93
3,000psi	4 1/16	3.06	3.50	3.50	4.81	3.86
	-	L ₁	L ₂	-	L _{3+0.06}	B
	2 1/16	1.75	-	-	3.19	2.10
	2 9/16	1.94	-	-	3.44	2.50
5,000psi	3 1/8	2.12	-	-	3.56	3.10
	4 1/16	2.44	3.50	-	4.31	4.06
	-	L ₁	L ₂	L ₃	L _{4+0.06}	B
	2 1/16	2.56	-	2.56	4.31	1.72
	2 9/16	2.81	-	2.81	4.44	2.16
	3 1/8	3.19	-	3.19	4.94	2.65
	4 1/16	3.88	3.88	3.88	5.19	3.47

API 6A-TYPE 6BX Weld-Neck Flange



B TO RING GROOVE MUST BE CONCENTRIC WITHIN 0.010 TOTAL INDICATOR RUNOUT



Working Pressure (psi)	Nominal Size and Bore of Flange	Small Hub Diameter	Maximum Bore	Outside Diameter of Flange	Total Thickness of Flange	Length of Hub	Diameter of bolt circle	Radius of Hub	Total Thickness of Flange	Number of Bolts	Diameter of Bolts	Diameter of Bolt Holes	Ring Number
10,000psi	-	A	B	D	F	L	P	R	T	-	-	-	BX
	2 1/16	3.94	2.09	7.88	4.38	2.03	6.25	0.38	1.73	8	3/4	0.88	152
	2 9/16	4.75	2.59	9.12	5.19	2.25	7.25	0.38	2.02	8	7/8	1.00	153
	3 1/16	5.59	3.09	10.62	6.00	2.50	8.50	0.38	2.30	8	1	1.12	154
15,000psi	4 1/16	7.19	4.09	12.44	7.28	2.50	10.19	0.38	2.77	8	1 1/8	1.25	155
	2 1/16	4.38	2.09	2	4.50	2.12	6.88	0.38	2.00	8	7/8	1.00	152
	2 9/16	5.06	2.59	2.25	5.25	2.25	7.88	0.38	2.25	8	1	1.12	153
	3 1/16	6.06	3.09	2.53	6.06	2.50	9.06	0.38	2.53	8	1 1/8	1.25	154
20,000psi	4 1/16	7.69	4.09	3.09	7.62	2.88	11.44	0.38	3.09	8	1 3/8	1.50	155
	2 1/16	6.06	2.09	2.81	5.19	2.06	9.06	0.38	2.81	8	1 1/8	1.25	152
	2 9/16	6.81	2.59	3.12	5.94	2.31	10.31	0.38	3.12	8	1 1/4	1.38	153
	3 1/16	7.56	3.09	3.38	6.75	2.50	11.31	0.38	3.38	8	1 3/8	1.50	154
	4 1/16	9.56	4.09	4.19	8.62	2.88	14.06	0.38	4.19	8	1 3/4	1.88	155

*E Refer to the Pipe Schedule (ANSI/ASME B36.10M)

ACCESSORIES



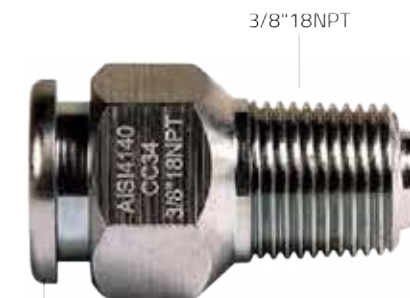
Product Descriptions

GREASE FITTINGS

- 65 3/8" GREASE FITTING
3/4" SAFETAP GREASE FITTING

GREASE FITTINGS

3/8" GREASE FITTING



Standard Giant Button Head

Features

- It is constructed from high-quality materials, providing durability and long-lasting performance even in harsh environments.
- Its leak-proof design ensures that the lubrication system remains sealed, reducing maintenance needs.
- The fitting is resistant to corrosion, making it suitable for use in environments exposed to moisture and chemicals.
- It is easy to install, requiring no special tools or complex procedures.
- Additionally, it allows for efficient grease application, ensuring optimal lubrication and extending equipment lifespan.

3/4" SAFETAP GREASE FITTING



Standard Giant Button Head

Metal-To-Metal Seal

Pressure Relief Groove

Features

- 3/4" SafeTap Grease Fitting features a unique metal-to-metal seal that eliminates the need for wetted threads and pipe taps, as the threads do not function as a seal and therefore do not require Teflon tape or other sealing aids.
- Its heavier cross-section enhances resistance to impacts, ensuring durability.
- Additionally, each fitting includes a machined slot through the threads, providing a pressure relief path in the event of a leak.
- The metal-to-metal seal, combined with the pressure relief slot, also allows for the safe bleeding of any residual internal pressure.