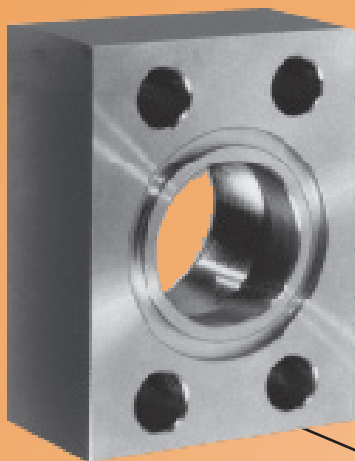
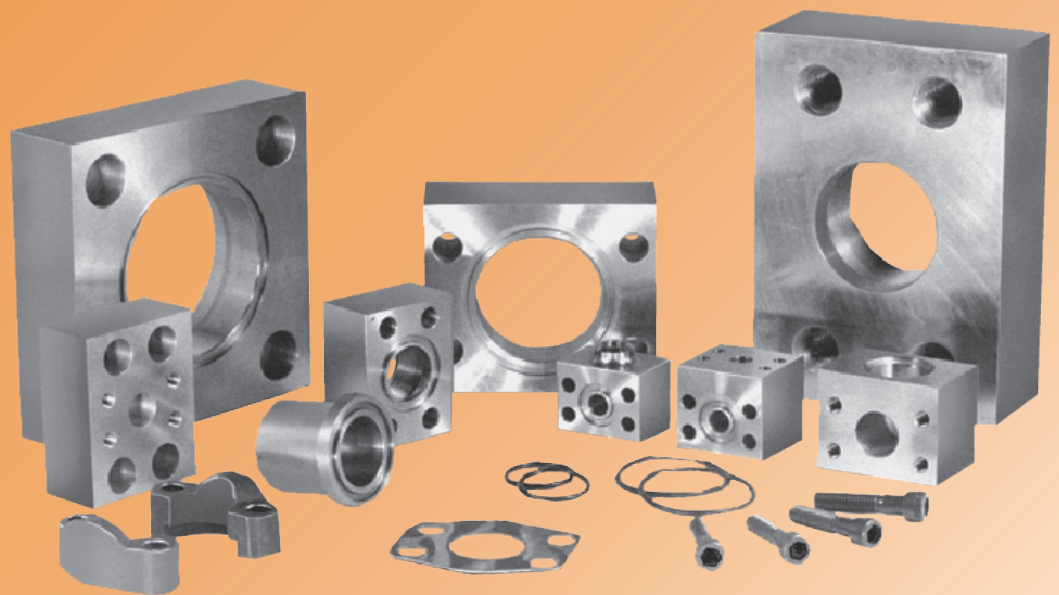




CATALOG 45
CARBON METRIC VERSION

‘MAIN’ HYDRAULIC FLANGES AND COMPONENTS



EXPERIENCE: Over 55 Years of Dependability

48,000 square foot State-of-the-Art manufacturing facility

4-bolt Flanges manufactured in the USA

QUICK DELIVERY: Over 5 Million Dollar Inventory

Flanges available in St., El., Tee, Wye, and other configurations

Ports available include Socket Weld, Butt Weld, NPTF and others

MTR's available on Stainless Steel and common Carbon Steel flanges

MAIN MANUFACTURING PRODUCTS
3181 TRI-PARK DRIVE
GRAND BLANC, MICHIGAN 48439

www.MAINmfg.com
info@MAINmfg.com

TOLL FREE PHONE: 800-521-7918
MICHIGAN PHONE: 810-953-1380
FAX: 810-953-1385

MAIN FLANGES ASSURE YOU OF THESE ADVANTAGES

- ✓ EXPERIENCE - Over 55 years experience in designing, developing, manufacturing, and distributing *quality* hydraulic flanges and components.
- ✓ ASSISTANCE - Engineers are active on ISO, SAE and NFPA technical committees and are available to assist you with a toll free call (USA & CANADA) **800-521-7918** or 810-953-1380. Faxes can be sent to 810-953-1385. E-mail inquiries to **info@MAINmfg.com**. Our "Quick Reference Guide" or **MAIN'S** web site, **MAINmfg.com** can also help.
- ✓ QUICK DELIVERY - Over 5 million dollar inventory and over 15,000 different items, including some specials, available for stock delivery. Our 48,000 square foot state-of-the-art manufacturing facility with specialized tooling and fixtures allows **MAIN** to manufacture parts quickly, when items are not in stock.

THE RIGHT PART, RIGHT TIME, RIGHT PRICE

MAIN manufactures components to SAE, ISO, Japanese, German, British and many company standards with nearly 7,000 special blueprints going back over 50 years. Most non-stock items are available in a few days. **MAIN** stocks 200+ tons of raw steel and STAINLESS to 15" X 15". Our staff can be of great assistance with up to 35 years experience and working on SAE, NFPA, and ISO standards committees.

INCREASE YOUR PROFITS

Downtime costs money! Because **MAIN** has the skill, knowledge, experience, materials, and tools, in-house, we can help keep your production lines going. Usually delivery time will be much less than attempting to engineer and make the flange in your own facility. You can be assured of receiving a flange manufactured to the highest industry standards.

OVER 5,000 NON-CATALOGED ITEMS IN STOCK

MAIN manufactures over 15,000 items in Michigan. Every week a few new items are added. This 120 page paper catalog shows only a few, while the electronic and on-line catalog has over 200 pages of flanges and fittings. Visit **MAINmfg.com** to view these pages or request our USB Flash Drive.

MATERIALS

MAIN can manufacture parts from any commercially available metal quickly and efficiently.

☛ Carbon Steel	☛ Stainless Steel	☛ Pressure Vessel Quality
☛ Hastelloy	☛ Monel	☛ Aluminum
☛ Cupro-Nickel	☛ Inconel	

TABLE OF CONTENTS

Preface and Ordering Information	I
Special Flanges	II
Sales Terms and Conditions	III

SAE STYLE FLANGES - 61 Series & 62 Series

Socket Weld Pipe In-Line Flanges	1
Socket Weld In-Line Flanges with Gauge Ports - 1/4" NPTF & -4 & -6 ORB	4
Blind Flanges	7
Socket Weld Pipe Elbow Flanges	8
Socket Weld Pipe Tee Flanges - Branch & Run Tee	10
Socket Weld Tube Flanges - In-Line & Elbow	12
Socket Weld Tube Tee Flanges - Branch & Run Tee	14
NPTF Threaded In-Line Flanges	16
NPTF Threaded Elbow Flanges	18
NPTF Threaded Tee Flanges - Branch & Run Tee	20
BSPT Threaded Flanges - In-Line & Elbow	22
SAE J1926 (ORB) Threaded In-Line Flanges	24
SAE J1926 (ORB) Threaded Elbow Flanges	26
SAE J1926 (ORB) Threaded Tee Flanges - Branch & Run Tee	28
BSPP Threaded Flanges - In-Line & Elbow	30
ISO 6149 Threaded Flanges - In-Line & Elbow	32
Butt Weld In-Line Flanges for Schedule 40, 80, 160 & XXS Pipe	34
Butt Weld Elbow Flanges for Schedule 40, 80, 160 & XXS Pipe	42
Spacers & Gauge Port Adapters - 1/4", 3/8", 1/2" & 3/4"	50
MULTIPLE FLANGE PATTERN EXPLANATION	54
Flanged Elbow Flanges	56
Flanged Tee Flanges - Branch & Run Tee	58
Flange Adapters - 61 x 62, 61 x 61, 62 x 61 & 62 x 62 Series	60
Connector Blocks, Plates & O-Ring Adapters	66
Reservoir & Tank Port Adapters	70
Split Flanges & Flange Clamps	72
Socket Weld Flanged Heads - Pipe & Tube	74
Threaded Flanged Heads - NPTF & SAE J1926 (ORB)	76
Butt Weld Flanged Heads for Schedule 40, 80, 160 & XXS Pipe	78

4 BOLT SQUARE FLANGES

JIS B 2291, 210k - SH & SS Series

Socket Weld Pipe In-Line Flanges	83
Blind Flanges	87
Threaded In-Line Flanges - NPTF & SAE J1926 (ORB)	88

ISO 6164 - 250 & 400 BAR Series

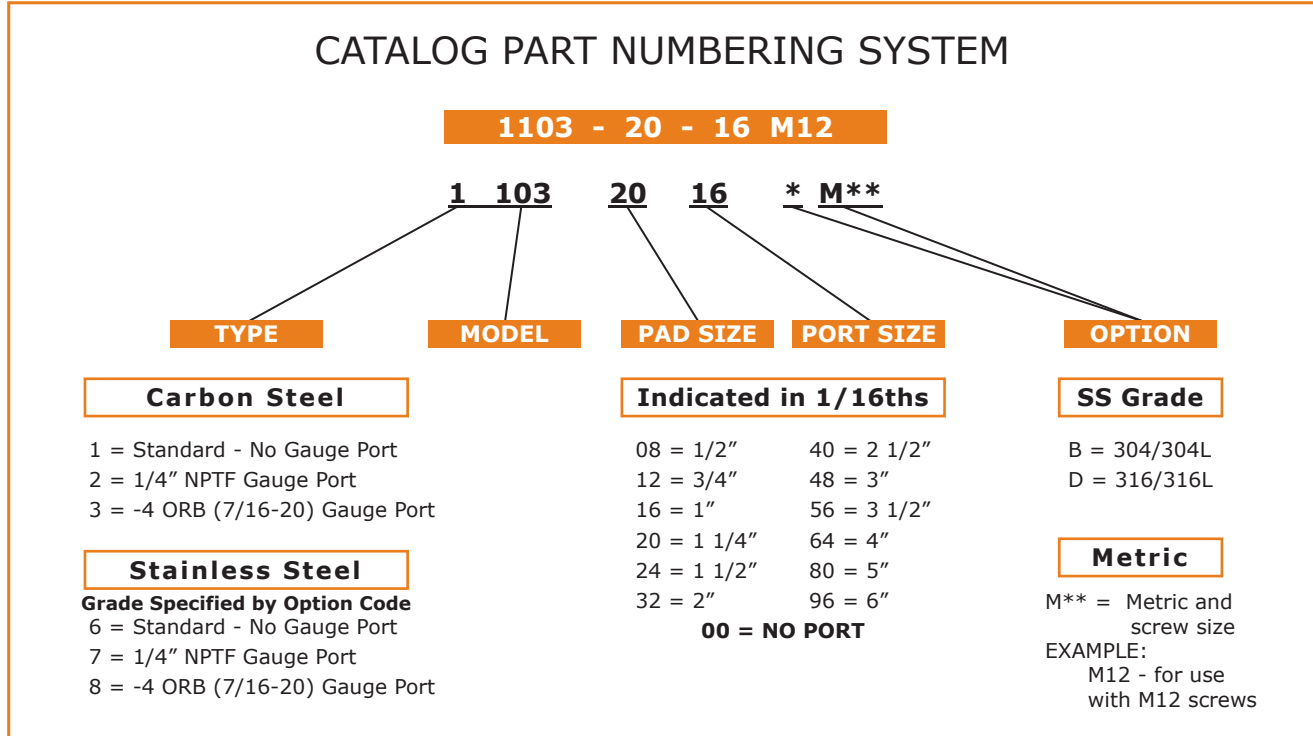
Socket Weld Pipe In-Line & Blind Flanges	90
Threaded In-Line Flanges - NPTF, SAE J1926 (ORB) & ISO 6149	92
Butt Weld In-Line Flanges for Schedule 80, 160 & XXS Pipe	94

MISCELLANEOUS PAGES

Multiple Flange Pattern Explanation	54
Stainless Steel Part Numbering Conversion	65
Quick Reference Guide	97
Mounting Kits & Engineering Information	98

PREFACE AND ORDERING INFORMATION

Six items will normally describe a flange: PAD (pattern and screw size), TYPE (O-Ring or Flat Faced), PORT (size and type), GEOMETRY, MATERIAL, and OPTIONS. Our way of describing these items uses **MAIN Manufacturing Products'** "Standard Catalog Part Numbering System" as follows:



Currently **MAIN** has over 500 Model numbers. This catalog shows only the most popular styles. **Many other styles and patterns are in stock.** Some special parts are under other part numbering systems. Please contact us with specific requirements.

MATERIAL SPECIFICATIONS

Most **MAIN** flanges are manufactured from steel specifically ordered from the mill with special requirements on internal soundness and surface finish. Socket and butt weld flanges are manufactured from a low carbon steel with excellent welding characteristics. Standard threaded flanges may be manufactured from a low carbon leaded or resulfurized steel for superior threading. To specify stainless steel, see above. Other materials are available. **If certification is required, it must be specified in advance so that the order can be properly quoted and handled.**

SAE 4-BOLT HYDRAULIC FLANGES

MAIN's SAE flanges are manufactured in accordance with the bolt pattern and O-Rings of SAE J518 specifications, either Code 61 or Code 62, and ISO 6162. Stock flanges include socket weld, butt weld, NPTF, and straight thread connections and are available as reducers, in-line, elbows, tees and wyes. Companion (flat-faced) flanges, for unions or converting split flange connections to pipe or tubing, are available with either inch or metric threads (see above for ordering information). The stated pressures are from the SAE J518 and are not derived by **MAIN**. Connections are no stronger than the weakest link (including welds, fasteners, and fittings, especially larger straight threads).

GAUGE PORTS

Flanges are available with 1/4" NPTF or -4 ORB threaded gauge ports for a nominal charge. Other sizes and types (BSPT, BSPP, ISO 6149) are available at a higher cost and slightly longer lead times.

SPECIAL FLANGES

MAIN Manufacturing Products, Inc. has manufactured hundreds of "special flanges" which do not fit any established bolt hole spacing. We welcome the opportunity to quote on any particular flange not shown in either the catalog or on-line. With over 55 years of manufacturing, the flange you need could easily be on our shelves but not cataloged. This includes flanges to ISO 6162, ISO 6164, JIS, or DIN standards and/or flanges with blind, ISO 6149, BSPP, BSPT, or butt weld ports. Run tees, branch tees, wyes, and crosses are also available. **Visit MAINmfg.com for more options or call 800-521-7918.**

SPECIAL PRODUCTS and CONTRACT MACHINING

MAIN Manufacturing Products, Inc. has specialized in the production of various hydraulic components, including hydraulic flanges, adapters, cylinder end caps, and block manifolds. Our engineering staff is always available for consultation on special products, special designs or other contract machining.

MOUNTING KITS (must be ordered separately)

The part number shown DOES NOT INCLUDE the mounting kit. This allows the customer to specify the type of screw and O-Ring material required. Generally the mounting kit numbers shown in the catalog include: 4 socket head screws, 4 hi-collar lock washers, and one Buna-N O-Ring. The third digit from the right (5-8) designates the type of mounting kit.

MK 5**, MK 15**, MK 25**, MK 35** series: Socket head screws, lock washers, & Buna-N O-Ring
MK 6**, MK 16**, MK 26**, MK 36** series: Socket head screws, lock washers, & Viton O-Ring
MK 7**, MK 17**, MK 27**, MK 37** series: Hex head screws, lock washers, & Buna-N O-Ring
MK 8**, MK 18**, MK 28**, MK 38** series: Hex head screws, lock washers, & Viton O-Ring

To specify stainless screws, add an SS at the end of the kit number (MK 533SS). **Please note that using stainless steel screws may reduce the pressure rating of the assembly.**

LIMITED WARRANTY

The soundness of steel cannot and is not guaranteed by steel manufacturers as it is always possible that any fluid connector may leak from a pinhole or porosity in the steel, not detectable commercially. Therefore, EXCEPT FOR DIMENSIONAL ACCURACY, THE MANUFACTURER HAS MADE NO AFFIRMATION OF FACT AND HAS MADE NO PROMISE RELATING TO THE GOODS BEING SOLD, WHICH HAS BECOME PART OF THE BASIS OF THE BARGAIN MADE OR HAS CREATED OR AMOUNTED TO AN EXPRESS WARRANTY THAT THE GOODS WOULD CONFORM TO ANY SUCH AFFIRMATION OR PROMISE OTHER THAN DIMENSIONAL ACCURACY. ALSO, THE MANUFACTURER DISCLAIMS ANY WARRANTY OF FITNESS FOR ANY PARTICULAR PURPOSES AND ANY IMPLIED WARRANTY OF MERCHANTABILITY WHATSOEVER WITH RESPECT TO THE GOODS BEING SOLD AND BUYER ACKNOWLEDGES THAT HE IS NOT RELYING ON SELLER'S SKILL OR JUDGMENT TO SELECT OR FURNISH GOODS SUITABLE FOR ANY PARTICULAR PURPOSES.

LIMITATION OF REMEDY

Catalog dimensions are for reference only and subject to engineering changes as the policy of **MAIN Manufacturing Products, Inc.** is one of continuous improvement. If dimensions are critical, request certified drawings. The sole remedy for breach of this warranty will extend only to the repair or the replacement of the defective part when returned, freight prepaid, within 90 days from purchase, after receiving permission for same. Seller will not be responsible for consequential damage.

SALES TERMS AND CONDITIONS

MAIN Standard Terms and Conditions apply on all orders unless approved in writing by the SALES MANAGER or GENERAL MANAGER ONLY.

ORDERING

- A. Standard Parts:** Order by **MAIN** Part Number, with description, to assure accuracy.
- B. Special Parts:** Please furnish full information including drawings, dimensions, and system pressure if available.
- C. Confirming Orders:** Confirming orders must be marked with "**CONFIRMING**" preferably across the order. **MAIN** cannot be responsible for a shipment against an unmarked order.
- D. Telephone Orders:** Telephone orders requesting shipment before receipt of written confirming order will be at customer's risk.

TERMS

- E. Payment Terms:** Standard terms are Net 30 days on approved credit (OAC).
- F. Shipping Terms:** EXW Grand Blanc, MI, USA. Title and possession will pass to the customer upon delivery to the carrier. Claims for damage in transit should be made by the customer to the carrier within the shorter of 3 days or the timeframe set by the carrier.
- G. Shortages:** Claims for shortages or other shipping errors must be made within three days of receipt.

RETURNS

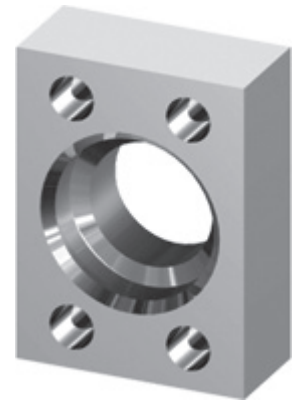
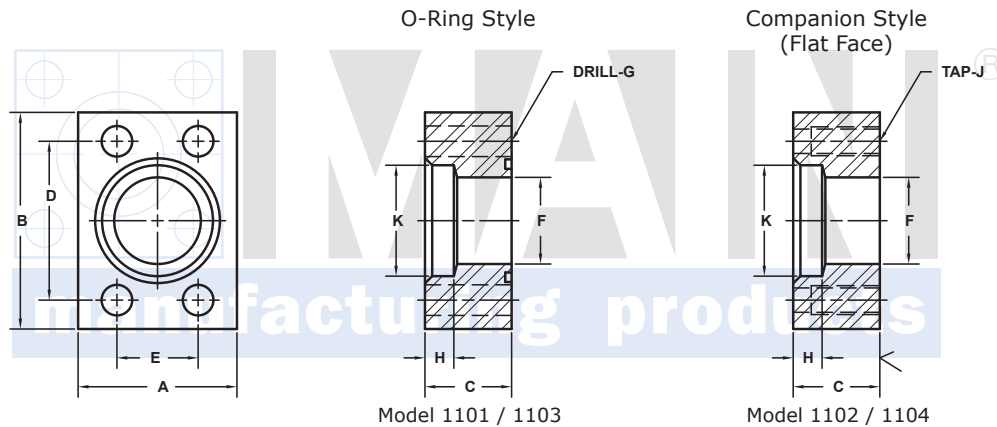
- H. Qualifying:** No return of special parts, parts beyond 6 months from ship date, or parts beyond our stocking limitations.
- I. Authorized:** Returns must be authorized by obtaining our "Return Goods Authorization" (RGA) form and including a copy with the return. Unauthorized returns will be returned freight collect.
- J. Timing:** Parts must be within 6 months from ship date and returned within 20 days of RGA issuance.
- K. Credit:** Credit will be at the lower of original price or current price, less: 20% restocking, \$25.00 handling, and less any necessary repair charges.
- L. Freight:** For parts shipped due to our error, credit will be issued for ground freight charges. Credit for premium freight will not be allowed.
- M. Return Freight:** Return freight to be prepaid by customer.
- N. Cancellations:** Purchase orders cancelled after production has begun or parts packed will be charged a cancellation charge.
- O. NOTICE:** These parts are precision made parts and require careful handling and secure packaging. Parts must be received in resalable condition.

SOCKET WELD PIPE IN-LINE FLANGES (Pg 1/3)

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1101-08-08M8	1.50	2.12	.75	1.500	.688	.50	8.5	.38	.860	MKM 501	M8 x 30	210	.5
		1102-08-08M8							M8x1.25			-----	-----	---	
1/2	3/4	-----	1.75	2.12	1.75	1.500	.688	.50	----	.50	1.070	-----	-----	---	1.6
		1102-08-12M8							M8x1.25			-----	-----	---	
3/4	1/2	1101-12-08M10	1.75	2.62	1.00	1.875	.875	.50	10.5	.38	.860	MKM 502	M10 x 40	214	1.1
		1102-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1101-12-12M10	1.75	2.62	1.00	1.875	.875	.75	10.5	.50	1.070	MKM 502	M10 x 40	214	1.0
		1102-12-12M10							M10x1.5			-----	-----	---	
3/4	1	-----	2.00	2.62	1.75	1.875	.875	.75	----	.50	1.335	-----	-----	---	2.1
		1102-12-16M10							M10x1.5			-----	-----	---	
1	1/2	1101-16-08M10	2.00	2.82	1.00	2.062	1.031	.50	10.5	.38	.860	MKM 503	M10 x 40	219	1.4
		1102-16-08M10							M10x1.5			-----	-----	---	
1	3/4	1101-16-12M10	2.00	2.82	1.00	2.062	1.031	.75	10.5	.50	1.070	MKM 503	M10 x 40	219	1.3
		1102-16-12M10							M10x1.5			-----	-----	---	
1	1	1101-16-16M10	2.00	2.82	1.00	2.062	1.031	1.00	10.5	.50	1.335	MKM 503	M10 x 40	219	1.2
		1102-16-16M10							M10x1.5			-----	-----	---	
1	1 1/4	-----	2.50	2.82	2.00	2.062	1.031	1.00	----	.50	1.680	-----	-----	---	3.2
		1102-16-20M10							M10x1.5			-----	-----	---	
1 1/4	3/4	1101-20-12M10†	2.50	3.19	1.00	2.312	1.188	.75	10.5	.50	1.070	MKM 3524	M10 x 40	222	1.8
		1102-20-12M10†							M10x1.5			-----	-----	---	
1 1/4	1	1101-20-16M10†	2.50	3.19	1.00	2.312	1.188	1.00	10.5	.50	1.335	MKM 3524	M10 x 40	222	1.6
		1102-20-16M10†							M10x1.5			-----	-----	---	

MATERIAL:
Low Carbon Steel



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SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1103-08-08M8	1.75	2.22	1.00	1.594	.718	.50	8.5	.50	.860	MKM 512	M8 x 35	210	.8
		1104-08-08M8							M8x1.25			-----	-----	---	
1/2	3/4	-----	1.75	2.22	1.75	1.594	.718	.50	----	.50	1.070	-----	-----	---	1.6
		1104-08-12M8							M8x1.25			-----	-----	---	
3/4	1/2	1103-12-08M10	2.00	2.81	1.00	2.000	.937	.50	10.5	.50	.860	MKM 502	M10 x 40	214	1.4
		1104-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1103-12-12M10	2.00	2.81	1.00	2.000	.937	.75	10.5	.50	1.070	MKM 502	M10 x 40	214	1.3
		1104-12-12M10							M10x1.5			-----	-----	---	
3/4	1	-----	2.25	2.81	1.00	2.000	.937	.75	----	.50	1.335	-----	-----	---	1.2
		1104-12-16M10							M10x1.5			-----	-----	---	
1	3/4	1103-16-12M12	2.25	3.19	1.00	2.250	1.093	.75	12.5	.50	1.070	MKM 513	M12 x 45	219	1.7
		1104-16-12M12							M12x1.75			-----	-----	---	
1	1	1103-16-16M12	2.25	3.19	1.00	2.250	1.093	1.00	12.5	.50	1.335	MKM 513	M12 x 45	219	1.5
		1104-16-16M12							M12x1.75			-----	-----	---	
1	1 1/4	-----	2.50	3.19	2.50	2.250	1.093	1.00	----	.50	1.680	-----	-----	---	4.6
		1104-16-20M12							M12x1.75			-----	-----	---	

① Order Separately

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. + Also Available for M12 Bolts

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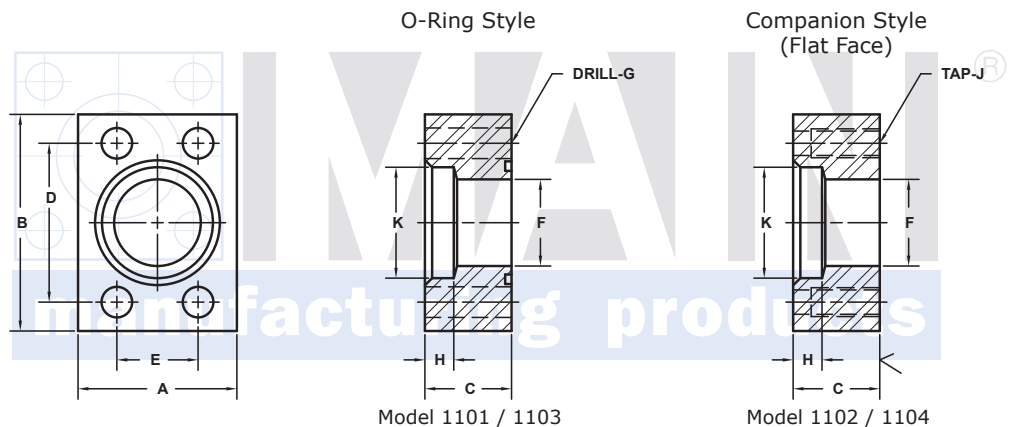
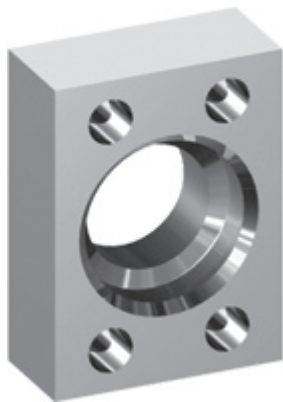
SOCKET WELD PIPE IN-LINE FLANGES (Pg 2/3)

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1¼	1¼	1101-20-20M10†	2.50	3.19	1.00	2.312	1.188	1.25	10.5	.50	1.680	MKM 3524	M10 x 40	222	1.5
		1102-20-20M10†							M10x1.5			-----	-----	---	
1¼	1½	-----	3.00	3.19	2.50	2.312	1.188	1.25	---	.50	1.920	-----	-----	---	5.4
		1102-20-24M10†							M10x1.5			-----	-----	---	
1½	¾	1101-24-12M12‡	2.75	3.75	1.25	2.750	1.406	.75	13.0	.50	1.070	MKM 3596	M12 x 50	225	3.2
		1102-24-12M12‡							M12x1.75			-----	-----	---	
1½	1	1101-24-16M12‡	2.75	3.75	1.25	2.750	1.406	1.00	13.0	.50	1.335	MKM 3596	M12 x 50	225	3.0
		1102-24-16M12‡							M12x1.75			-----	-----	---	
1½	1¼	1101-24-20M12‡	2.75	3.75	1.25	2.750	1.406	1.25	13.0	.50	1.680	MKM 3596	M12 x 50	225	2.8
		1102-24-20M12‡							M12x1.75			-----	-----	---	
1½	1½	1101-24-24M12‡	2.75	3.75	1.25	2.750	1.406	1.50	13.0	.50	1.920	MKM 3596	M12 x 50	225	2.5
		1102-24-24M12‡							M12x1.75			-----	-----	---	
1½	2	-----	3.50	3.75	2.25	2.750	1.406	1.50	---	.50	2.411	-----	-----	---	3.2
		1102-24-32M12‡							M12x1.75			-----	-----	---	
2	1¼	1101-32-20M12‡	3.25	4.00	1.50	3.062	1.688	1.25	13.0	.50	1.680	MKM 3501	M12 x 55	228	4.5
		1102-32-20M12‡							M12x1.75			-----	-----	---	
2	1½	1101-32-24M12‡	3.25	4.00	1.50	3.062	1.688	1.50	13.0	.50	1.920	MKM 3501	M12 x 55	228	4.3
		1102-32-24M12‡							M12x1.75			-----	-----	---	
2	2	1101-32-32M12‡	3.25	4.00	1.50	3.062	1.688	1.94	13.0	.62	2.411	MKM 3501	M12 x 55	228	3.6
		1102-32-32M12‡							M12x1.75			-----	-----	---	
2	2½	-----	4.00	4.00	2.50	3.062	1.688	1.94	---	.50	2.911	-----	-----	---	8.3
		1102-32-40M12‡							M12x1.75			-----	-----	---	

MATERIAL:

Low Carbon Steel



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SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1 ¼	¾	1103-20-12M12‡	2.75	3.75	1.25	2.625	1.250	.75	13.0	.50	1.070	MKM 1502	M12 x 50	222	3.0
		1104-20-12M12‡							M12x1.75			-----	-----	---	
1 ¼	1	1103-20-16M12‡	2.75	3.75	1.25	2.625	1.250	1.00	13.0	.50	1.335	MKM 1502	M12 x 50	222	2.9
		1104-20-16M12‡							M12x1.75			-----	-----	---	
1 ¼	1 ¼	1103-20-20M12‡	2.75	3.75	1.25	2.625	1.250	1.25	13.0	.50	1.680	MKM 1502	M12 x 50	222	2.7
		1104-20-20M12‡							M12x1.75			-----	-----	---	
1 ¼	1 ½	-----	3.00	3.75	2.00	2.625	1.250	1.25	---	.50	1.920	-----	-----	---	5.1
		1104-20-24M12‡							M12x1.75			-----	-----	---	
1 ½	1	1103-24-16M16	3.25	4.50	1.50	3.125	1.437	1.00	17.0	.50	1.335	MKM 515	M16 x 60	225	5.3
		1104-24-16M16							M16x2			-----	-----	---	
1 ½	1 ¼	1103-24-20M16	3.25	4.50	1.50	3.125	1.437	1.25	17.0	.50	1.680	MKM 515	M16 x 60	225	5.1
		1104-24-20M16							M16x2			-----	-----	---	
1 ½	1 ½	1103-24-24M16	3.25	4.50	1.50	3.125	1.437	1.50	17.0	.50	1.920	MKM 515	M16 x 60	225	4.8
		1104-24-24M16							M16x2			-----	-----	---	
1 ½	2	-----	4.00	4.50	3.00	3.125	1.437	1.50	---	.62	2.411	-----	-----	---	12.6
		1104-24-32M16							M16x2			-----	-----	---	

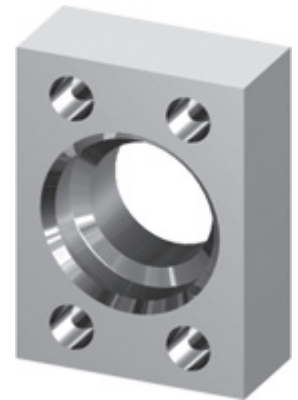
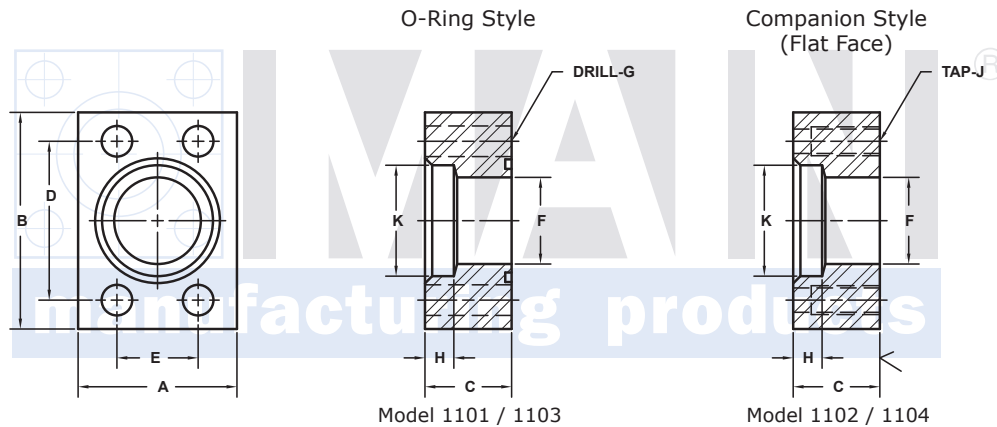
① Order Separately

SOCKET WELD PIPE IN-LINE FLANGES (Pg 3/3)

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
2½ ^②	2	1101-40-32M12+	4.00	4.50	1.75	3.500	2.000	1.94	13.0	.62	2.411	MKM 4511	M12 x 60	232	6.8
		1102-40-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2½	1101-40-40M12+	4.00	4.50	1.75	3.500	2.000	2.44	13.0	.75	2.911	MKM 4511	M12 x 60	232	5.7
		1102-40-40M12+							M12x1.75			-----	-----	---	
2½ ^②	3	-----	5.00	5.00	3.00	3.500	2.000	2.44	----	.75	3.540	-----	-----	---	15.6
		1102-40-48M12+							M12x1.75			-----	-----	---	
3 ^③	2½	1101-48-40M16	4.50	5.31	2.00	4.188	2.438	2.44	17.0	.75	2.911	MKM 508	M16 x 75	237	9.7
		1102-48-40M16							M16x2			-----	-----	---	
3 ^③	3	1101-48-48M16	4.50	5.31	2.00	4.188	2.438	2.94	17.0	.75	3.540	MKM 508	M16 x 75	237	8.3
		1102-48-48M16							M16x2			-----	-----	---	
3½ ^④	3	1101-56-48M16	5.00	6.00	1.50	4.750	2.750	2.94	17.0	.75	3.540	MKM 509	M16 x 65	241	8.5
		1102-56-48M16							M16x2			-----	-----	---	
3½ ^④	3½	1101-56-56M16	5.00	6.00	1.50	4.750	2.750	3.44	17.0	.75	4.045	MKM 509	M16 x 65	241	7.5
		1102-56-56M16							M16x2			-----	-----	---	
4 ^④	3½	1101-64-56M16	5.50	6.38	1.50	5.125	3.062	3.44	17.0	.75	4.045	MKM 510	M16 x 60	245	9.3
		1102-64-56M16							M16x2			-----	-----	---	
4 ^④	4	1101-64-64M16	5.50	6.38	1.50	5.125	3.062	3.94	17.0	.75	4.550	MKM 510	M16 x 60	245	8.3
		1102-64-64M16							M16x2			-----	-----	---	
5 ^④	4	1101-80-64M16	7.00	7.25	2.00	6.000	3.625	3.94	17.0	.75	4.550	MKM 511	M16 x 75	253	19.7
		1102-80-64M16							M16x2			-----	-----	---	
5 ^④	5	1101-80-80M16	7.00	7.25	2.00	6.000	3.625	4.94	17.0	.75	5.635	MKM 511	M16 x 75	253	16.0
		1102-80-80M16							M16x2			-----	-----	---	

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT①			WT
									PART NO.			SCREW SIZE	O-RING		
2	1½	1103-32-24M20	4.00	5.25	1.75	3.812	1.750	1.50	21.0	.50	1.920	MKM 516	M20 x 70	228	8.5
		1104-32-24M20							M20x2.5			-----	-----	---	
2	2	1103-32-32M20	4.00	5.25	1.75	3.812	1.750	1.94	21.0	.62	2.411	MKM 516	M20 x 70	228	7.8
		1104-32-32M20							M20x2.5			-----	-----	---	
2	2½	-----	5.00	5.50	3.00	3.812	1.750	1.94	---	.62	2.911	-----	-----	---	19.1
		1104-32-40M20							M20x2.5			-----	-----	---	
2½	2	1103-40-32M24	5.00	6.88	2.00	4.875	2.312	1.94	25.5	.62	2.411	MKM 517	M24 x 80	232	15.7
		1104-40-32M24							M24x3			-----	-----	---	
2½	2½	1103-40-40M24	5.00	6.88	2.00	4.875	2.312	2.44	25.5	.62	2.911	MKM 517	M24 x 80	232	15.2
		1104-40-40M24							M24x3			-----	-----	---	
2½	3	-----	5.00	6.88	2.00	4.875	2.312	2.44	---	.62	3.540	-----	-----	---	14.6
		1104-40-48M24							M24x3			-----	-----	---	
3	2½	1103-48-40M30	6.00	8.50	2.50	6.000	2.812	2.44	32.0	.62	2.911	MKM 518	M30 x 110	237	28.8
		1104-48-40M30							M30x3.5			-----	-----	---	
3	3	1103-48-48M30	6.00	8.50	2.50	6.000	2.812	2.94	32.0	.62	3.540	MKM 518	M30 x 110	237	28.0
		1104-48-48M30							M30x3.5			-----	-----	---	

① Order Separately ② 2500 PSI Max ③ 2000 PSI Max ④ 500 PSI Max

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

‡ Also Available for M14 Bolts

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SOCKET WELD PIPE IN-LINE FLANGES

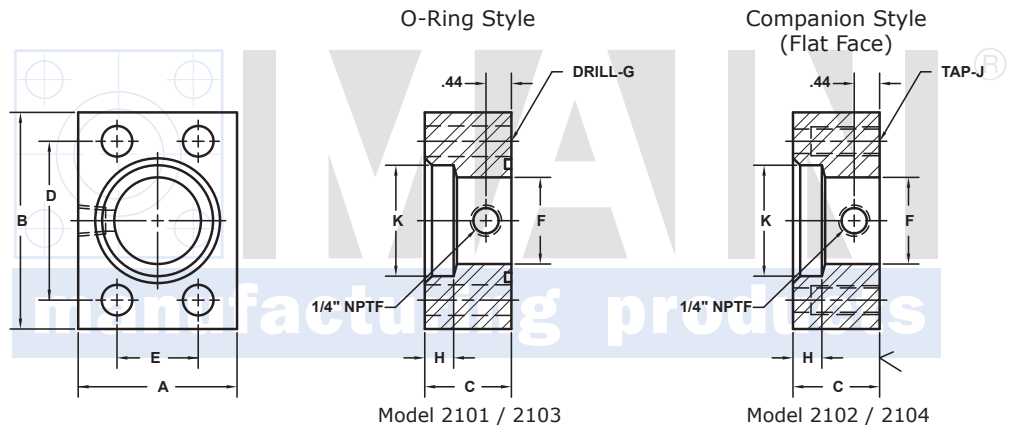
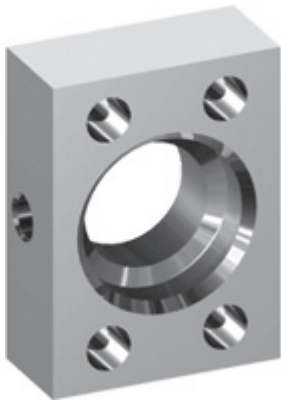
WITH 1/4" NPTF GAUGE PORT

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	2101-08-08M8	1.50	2.12	1.25	1.500	.688	.50	8.5	.38	.860	MKM 519	M8 x 45	210	.7
		2102-08-08M8							M8x1.25			-----	-----	---	
3/4	3/4	2101-12-12M10	1.75	2.62	1.25	1.875	.875	.75	10.5	.50	1.070	MKM 520	M10 x 45	214	1.2
		2102-12-12M10							M10x1.5			-----	-----	---	
1	1	2101-16-16M10	2.00	2.82	1.25	2.062	1.031	1.00	10.5	.50	1.335	MKM 1501	M10 x 45	219	1.5
		2102-16-16M10							M10x1.5			-----	-----	---	
1 1/4	1 1/4	2101-20-20M10†	2.50	3.19	1.25	2.312	1.188	1.25	10.5	.50	1.680	MKM 4567	M10 x 45	222	2.0
		2102-20-20M10†							M10x1.5			-----	-----	---	
1 1/2	1 1/2	2101-24-24M12‡	2.75	3.75	1.25	2.750	1.406	1.50	13.0	.50	1.920	MKM 3596	M12 x 50	225	2.5
		2102-24-24M12‡							M12x1.75			-----	-----	---	
2	2	2101-32-32M12‡	3.25	4.00	1.50	3.062	1.688	1.94	13.0	.62	2.411	MKM 3501	M12 x 55	228	3.6
		2102-32-32M12‡							M12x1.75			-----	-----	---	
2 1/2 ^②	2 1/2	2101-40-40M12‡	4.00	4.50	1.75	3.500	2.000	2.44	13.0	.75	2.911	MKM 4511	M12 x 60	232	5.7
		2102-40-40M12‡							M12x1.75			-----	-----	---	
3 ^③	3	2101-48-48M16	4.50	5.31	2.00	4.188	2.438	2.94	17.0	.75	3.540	MKM 508	M16 x 75	237	8.3
		2102-48-48M16							M16x2			-----	-----	---	
3 1/2 ^④	3 1/2	2101-56-56M16	5.00	6.00	1.50	4.750	2.750	3.44	17.0	.75	4.045	MKM 509	M16 x 65	241	7.7
		2102-56-56M16							M16x2			-----	-----	---	
4 ^④	4	2101-64-64M16	5.50	6.38	1.50	5.125	3.062	3.94	17.0	.75	4.550	MKM 510	M16 x 60	245	8.3
		2102-64-64M16							M16x2			-----	-----	---	
5 ^④	5	2101-80-80M16	7.00	7.25	2.00	6.000	3.625	4.94	17.0	.75	5.635	MKM 511	M16 x 75	253	14.5
		2102-80-80M16							M16x2			-----	-----	---	

MATERIAL:

Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	2103-08-08M8	1.75	2.22	1.25	1.594	.718	.50	8.5	.50	.860	MKM 519	M8 x 45	210	1.1
		2104-08-08M8							M8x1.25			-----	-----	---	
3/4	3/4	2103-12-12M10	2.00	2.81	1.25	2.000	.937	.75	10.5	.50	1.070	MKM 520	M10 x 45	214	1.5
		2104-12-12M10							M10x1.5			-----	-----	---	
1	1	2103-16-16M12	2.25	3.19	1.25	2.250	1.093	1.00	12.5	.50	1.335	MKM 1504	M12 x 50	219	1.9
		2104-16-16M12							M12x1.75			-----	-----	---	
1 1/4	1 1/4	2103-20-20M12‡	2.75	3.75	1.25	2.625	1.250	1.25	13.0	.50	1.680	MKM 1502	M12 x 50	222	2.7
		2104-20-20M12‡							M12x1.75			-----	-----	---	
1 1/2	1 1/2	2103-24-24M16	3.25	4.50	1.50	3.125	1.437	1.50	17.0	.50	1.920	MKM 515	M16 x 60	225	4.7
		2104-24-24M16							M16x2			-----	-----	---	
2	2	2103-32-32M20	4.00	5.25	1.75	3.812	1.750	1.94	21.0	.62	2.411	MKM 516	M20 x 70	228	7.8
		2104-32-32M20							M20x2.5			-----	-----	---	
2 1/2	2 1/2	2103-40-40M24	5.00	6.88	2.00	4.875	2.312	2.44	25.5	.62	2.911	MKM 517	M24 x 80	232	15.2
		2104-40-40M24							M24x3			-----	-----	---	
3	3	2103-48-48M30	6.00	8.50	2.50	6.000	2.812	2.94	32.0	.62	3.540	MKM 518	M30 x 110	237	27.8
		2104-48-48M30							M30x3.5			-----	-----	---	

① Order Separately ② 2500 PSI Max ③ 2000 PSI Max ④ 500 PSI Max

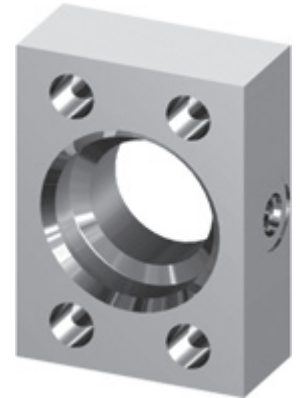
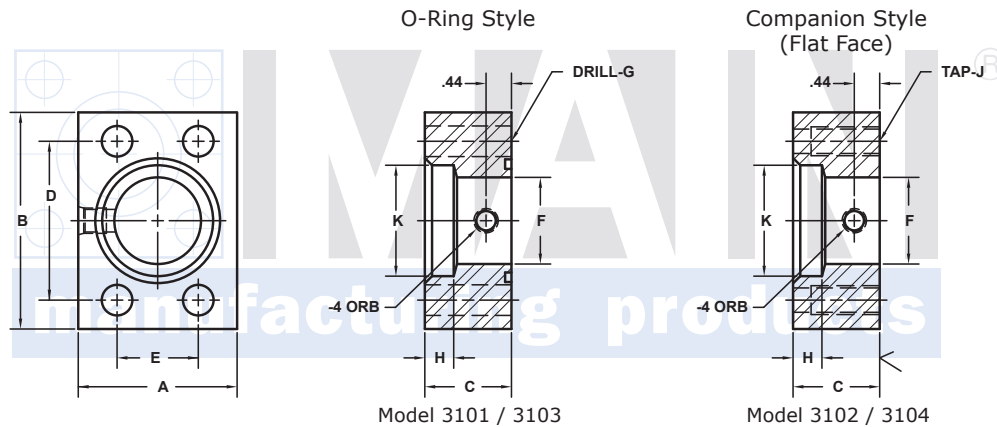
SOCKET WELD PIPE IN-LINE FLANGES

WITH -4 ORB (7/16-20) GAUGE PORT ⑥

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	3101-08-08M8	1.50	2.12	1.25	1.500	.688	.50	8.5	.38	.860	MKM 519	M8 x 45	210	.7
		3102-08-08M8							M8x1.25			-----	-----	---	
3/4	3/4	3101-12-12M10	1.75	2.62	1.25	1.875	.875	.75	10.5	.50	1.070	MKM 520	M10 x 45	214	1.2
		3102-12-12M10							M10x1.5			-----	-----	---	
1	1	3101-16-16M10	2.00	2.82	1.25	2.062	1.031	1.00	10.5	.50	1.335	MKM 1501	M10 x 45	219	1.5
		3102-16-16M10							M10x1.5			-----	-----	---	
1 1/4	1 1/4	3101-20-20M10†	2.50	3.19	1.25	2.312	1.188	1.25	10.5	.50	1.680	MKM 4567	M10 x 45	222	2.0
		3102-20-20M10†							M10x1.5			-----	-----	---	
1 1/2	1 1/2	3101-24-24M12‡	2.75	3.75	1.25	2.750	1.406	1.50	13.0	.50	1.920	MKM 3596	M12 x 50	225	2.5
		3102-24-24M12‡							M12x1.75			-----	-----	---	
2	2	3101-32-32M12‡	3.25	4.00	1.50	3.062	1.688	1.94	13.0	.62	2.411	MKM 3501	M12 x 55	228	3.6
		3102-32-32M12‡							M12x1.75			-----	-----	---	
2 1/2 ②	2 1/2	3101-40-40M12‡	4.00	4.50	1.75	3.500	2.000	2.44	13.0	.75	2.911	MKM 4511	M12 x 60	232	5.7
		3102-40-40M12‡							M12x1.75			-----	-----	---	
3 ③	3	3101-48-48M16	4.50	5.31	2.00	4.188	2.438	2.94	17.0	.75	3.540	MKM 508	M16 x 75	237	8.3
		3102-48-48M16							M16x2			-----	-----	---	
3 1/2 ④	3 1/2	3101-56-56M16	5.00	6.00	1.50	4.750	2.750	3.44	17.0	.75	4.045	MKM 509	M16 x 65	241	7.7
		3102-56-56M16							M16x2			-----	-----	---	
4 ④	4	3101-64-64M16	5.50	6.38	1.50	5.125	3.062	3.94	17.0	.75	4.550	MKM 510	M16 x 60	245	8.3
		3102-64-64M16							M16x2			-----	-----	---	
5 ④	5	3101-80-80M16	7.00	7.25	2.00	6.000	3.625	4.94	17.0	.75	5.635	MKM 511	M16 x 75	253	14.5
		3102-80-80M16							M16x2			-----	-----	---	

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	3103-08-08M8	1.75	2.22	1.25	1.594	.718	.50	8.5	.50	.860	MKM 519	M8 x 45	210	1.1
		3104-08-08M8							M8x1.25			-----	-----	---	
3/4	3/4	3103-12-12M10	2.00	2.81	1.25	2.000	.937	.75	10.5	.50	1.070	MKM 520	M10 x 45	214	1.5
		3104-12-12M10							M10x1.5			-----	-----	---	
1	1	3103-16-16M12	2.25	3.19	1.25	2.250	1.093	1.00	12.5	.50	1.335	MKM 1504	M12 x 50	219	1.9
		3104-16-16M12							M12x1.75			-----	-----	---	
1 1/4	1 1/4	3103-20-20M12+	2.75	3.75	1.25	2.625	1.250	1.25	13.0	.50	1.680	MKM 1502	M12 x 50	222	2.7
		3104-20-20M12+							M12x1.75			-----	-----	---	
1 1/2	1 1/2	3103-24-24M16	3.25	4.50	1.50	3.125	1.437	1.50	17.0	.50	1.920	MKM 515	M16 x 60	225	4.7
		3104-24-24M16							M16x2			-----	-----	---	
2	2	3103-32-32M20	4.00	5.25	1.75	3.812	1.750	1.94	21.0	.62	2.411	MKM 516	M20 x 70	228	7.8
		3104-32-32M20							M20x2.5			-----	-----	---	
2 1/2	2 1/2	3103-40-40M24	5.00	6.88	2.00	4.875	2.312	2.44	25.5	.62	2.911	MKM 517	M24 x 80	232	15.2
		3104-40-40M24							M24x3			-----	-----	---	
3	3	3103-48-48M30	6.00	8.50	2.50	6.000	2.812	2.94	32.0	.62	3.540	MKM 518	M30 x 110	237	27.8
		3104-48-48M30							M30x3.5			-----	-----	---	

① Order Separately ② 2500 PSI Max ③ 2000 PSI Max ④ 500 PSI Max

⑥ Also Available with -6 ORB (9/16-18) GAUGE PORT

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

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SOCKET WELD PIPE IN-LINE FLANGES

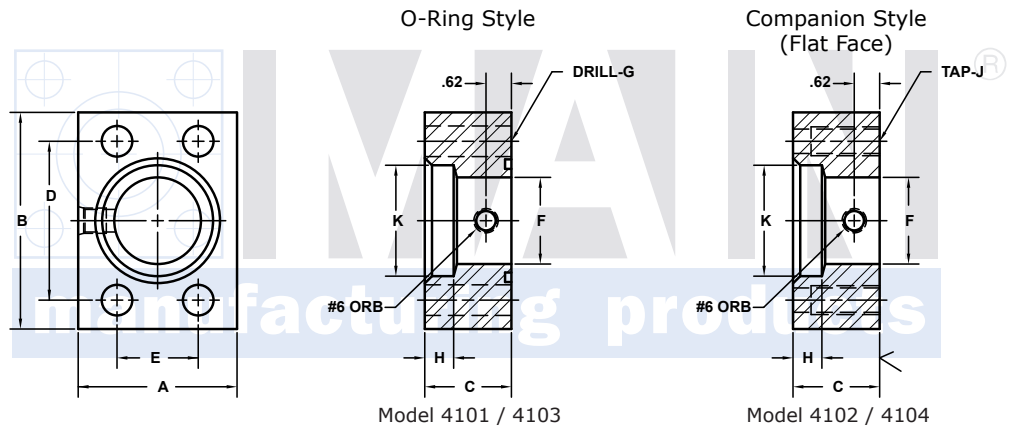
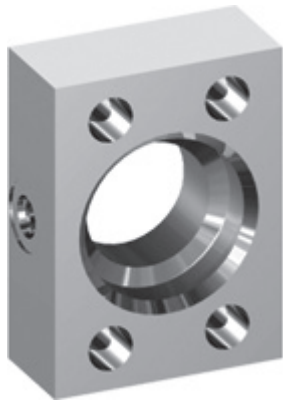
WITH 9/16-18 (-6) SAE GAUGE PORT

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			BOLT SIZE	O-RING		
1/2	1/2	4101-08-08M8	1.50	2.12	1.50	1.500	.688	.50	8.5	.38	.860	MKM 541	M8 x 50	210	1.0
		4102-08-08M8							M8x1.25			-----	-----	---	
3/4	3/4	4101-12-12M10	1.75	2.62	1.50	1.875	.875	.75	10.5	.50	1.070	MKM	M10 x 50	214	1.4
		4102-12-12M10							M10x1.5			-----	-----	---	
1	1	4101-16-16M10	2.00	2.82	1.50	2.062	1.031	1.00	10.5	.50	1.335	MKM 521	M10 x 50	219	1.7
		4102-16-16M10							M10x1.5			-----	-----	---	
1 1/4	1 1/4	4101-20-20M10†	2.50	3.19	1.50	2.312	1.188	1.25	10.5	.50	1.680	MKM 3526	M10 x 50	222	2.3
		4102-20-20M10†							M10x1.5			-----	-----	---	
1 1/2	1 1/2	4101-24-24M12‡	2.75	3.75	1.50	2.750	1.406	1.50	13.0	.50	1.920	MKM	M12 x 55	225	3.0
		4102-24-24M12‡							M12x1.75			-----	-----	---	
2	2	4101-32-32M12‡	3.25	4.00	1.75	3.062	1.688	1.94	13.0	.62	2.411	MKM 2566	M12 x 60	228	4.1
		4102-32-32M12‡							M12x1.75			-----	-----	---	
2 1/2 ^②	2 1/2	4101-40-40M12‡	4.00	4.50	1.75	3.500	2.000	2.44	13.0	.75	2.911	MKM 4511	M12 x 60	232	5.6
		4102-40-40M12‡							M12x1.75			-----	-----	---	
3 ^③	3	4101-48-48M16	4.50	5.31	2.00	4.188	2.438	2.94	17.0	.75	3.540	MKM 508	M16 x 75	237	8.1
		4102-48-48M16							M16x2			-----	-----	---	
3 1/2 ^④	3 1/2	4101-56-56M16	5.00	6.00	1.75	4.750	2.750	3.44	17.0	.75	4.045	MKM	M16 x 70	241	8.6
		4102-56-56M16							M16x2			-----	-----	---	
4 ^④	4	4101-64-64M16	5.50	6.38	1.75	5.125	3.062	3.94	17.0	.75	4.550	MKM	M16 x 70	245	9.6
		4102-64-64M16							M16x2			-----	-----	---	
5 ^④	5	4101-80-80M16	7.00	7.25	2.00	6.000	3.625	4.94	17.0	.75	5.635	MKM 511	M16 x 75	253	15.6
		4102-80-80M16							M16x2			-----	-----	---	

MATERIAL:

Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			BOLT SIZE	O-RING		
1/2	1/2	4103-08-08M8	1.75	2.22	1.50	1.594	.718	.50	8.5	.50	.860	MKM 541	M8 x 50	210	1.3
		4104-08-08M8							M8x1.25			-----	-----	---	
3/4	3/4	4103-12-12M10	2.00	2.81	1.50	2.000	.937	.75	10.5	.50	1.070	MKM	M10 x 50	214	1.8
		4104-12-12M10							M10x1.5			-----	-----	---	
1	1	4103-16-16M12	2.25	3.19	1.50	2.250	1.093	1.00	12.5	.50	1.335	MKM 525	M12 x 55	219	2.3
		4104-16-16M12							M12x1.75			-----	-----	---	
1 1/4	1 1/4	4103-20-20M12‡	2.75	3.75	1.50	2.625	1.250	1.25	13.0	.50	1.680	MKM 522	M12 x 55	222	3.3
		4104-20-20M12‡							M12x1.75			-----	-----	---	
1 1/2	1 1/2	4103-24-24M16	3.25	4.50	1.50	3.125	1.437	1.50	17.0	.50	1.920	MKM 515	M16 x 60	225	4.6
		4104-24-24M16							M16x2			-----	-----	---	
2	2	4103-32-32M20	4.00	5.25	1.75	3.812	1.750	1.94	21.0	.62	2.411	MKM 516	M20 x 70	228	7.6
		4104-32-32M20							M20x2.5			-----	-----	---	
2 1/2	2 1/2	4103-40-40M24	5.00	6.88	2.00	4.875	2.312	2.44	25.5	.62	2.911	MKM 517	M24 x 80	232	14.8
		4104-40-40M24							M24x3			-----	-----	---	
3	3	4103-48-48M30	6.00	8.50	2.50	6.000	2.812	2.94	32.0	.62	3.540	MKM 518	M30 x 110	237	27.4
		4104-48-48M30							M30x3.5			-----	-----	---	

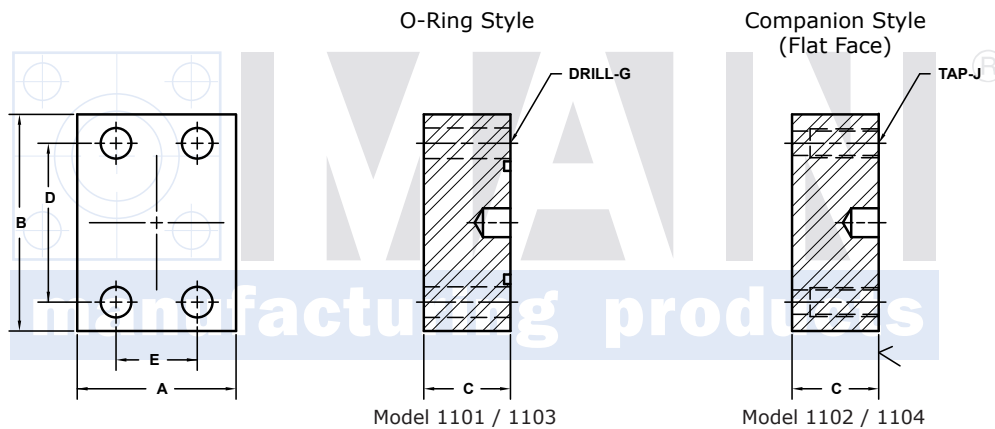
① Order Separately ② 2500 PSI Max ③ 2000 PSI Max ④ 500 PSI Max

BLIND FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E		Gmm			MOUNTING KIT ^①			WT
									Jmm			PART NO.	SCREW SIZE	O-RING	
1/2	NA	1101-08-00M8	1.50	2.12	.75	1.500	.688		8.5			MKM 501	M8 x 30	210	.7
		1102-08-00M8							M8x1.25			-----	-----	---	
3/4	NA	1101-12-00M10	1.75	2.62	1.00	1.875	.875		10.5			MKM 502	M10 x 40	214	1.2
		1102-12-00M10							M10x1.5			-----	-----	---	
1	NA	1101-16-00M10	2.00	2.82	1.00	2.062	1.031		10.5			MKM 503	M10 x 40	219	1.5
		1102-16-00M10							M10x1.5			-----	-----	---	
1 1/4	NA	1101-20-00M10+	2.50	3.19	1.00	2.312	1.188		10.5			MKM 3524	M10 x 40	222	2.0
		1102-20-00M10+							M10x1.5			-----	-----	---	
1 1/2	NA	1101-24-00M12+	2.75	3.75	1.25	2.750	1.406		13.0			MKM 3596	M12 x 50	225	3.3
		1102-24-00M12+							M12x1.75			-----	-----	---	
2	NA	1101-32-00M12+	3.25	4.00	1.50	3.062	1.688		13.0			MKM 3501	M12 x 55	228	5.2
		1102-32-00M12+							M12x1.75			-----	-----	---	
2 1/2 ^②	NA	1101-40-00M12+	4.00	4.50	1.75	3.500	2.000		13.0			MKM 4511	M12 x 60	232	8.5
		1102-40-00M12+							M12x1.75			-----	-----	---	
3 ^③	NA	1101-48-00M16	4.50	5.31	2.00	4.188	2.438		17.0			MKM 508	M16 x 75	237	12.8
		1102-48-00M16							M16x2			-----	-----	---	
3 1/2 ^④	NA	1101-56-00M16	5.00	6.00	1.50	4.750	2.750		17.0			MKM 509	M16 x 65	241	12.3
		1102-56-00M16							M16x2			-----	-----	---	
4 ^④	NA	1101-64-00M16	5.50	6.38	1.50	5.125	3.062		17.0			MKM 510	M16 x 60	245	14.5
		1102-64-00M16							M16x2			-----	-----	---	
5 ^④	NA	1101-80-00M16	7.00	7.25	2.00	6.000	3.625		17.0			MKM 511	M16 x 75	253	28.1
		1102-80-00M16							M16x2			-----	-----	---	

MATERIAL:
Low Carbon Steel



Model 1101 / 1103

Model 1102 / 1104

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E		Gmm			MOUNTING KIT ^①			WT
									Jmm			PART NO.	SCREW SIZE	O-RING	
1/2	NA	1103-08-00M8	1.75	2.22	1.00	1.594	.718		8.5			MKM 512	M8 x 35	210	.9
		1104-08-00M8							M8x1.25			-----	-----	---	
3/4	NA	1103-12-00M10	2.00	2.81	1.00	2.000	.937		10.5			MKM 502	M10 x 40	214	1.4
		1104-12-00M10							M10x1.5			-----	-----	---	
1	NA	1103-16-00M12	2.25	3.19	1.00	2.250	1.093		12.5			MKM 513	M12 x 45	219	1.8
		1104-16-00M12							M12x1.75			-----	-----	---	
1 1/4	NA	1103-20-00M12+	2.75	3.75	1.25	2.625	1.250		13.0			MKM 1502	M12 x 50	222	3.3
		1104-20-00M12+							M12x1.75			-----	-----	---	
1 1/2	NA	1103-24-00M16	3.25	4.50	1.50	3.125	1.437		17.0			MKM 515	M16 x 60	225	5.7
		1104-24-00M16							M16x2			-----	-----	---	
2	NA	1103-32-00M20	4.00	5.25	1.75	3.812	1.750		21.0			MKM 516	M20 x 70	228	9.7
		1104-32-00M20							M20x2.5			-----	-----	---	
2 1/2	NA	1103-40-00M24	5.00	6.88	2.00	4.875	2.312		25.5			MKM 517	M24 x 80	232	18.2
		1104-40-00M24							M24x3			-----	-----	---	
3	NA	1103-48-00M30	6.00	8.50	2.50	6.000	2.812		32.0			MKM 518	M30 x 110	237	33.5
		1104-48-00M30							M30x3.5			-----	-----	---	

① Order Separately ② 2500 PSI Max ③ 2000 PSI Max ④ 500 PSI Max

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. + Also Available for M12 Bolts + Also Available for M14 Bolts

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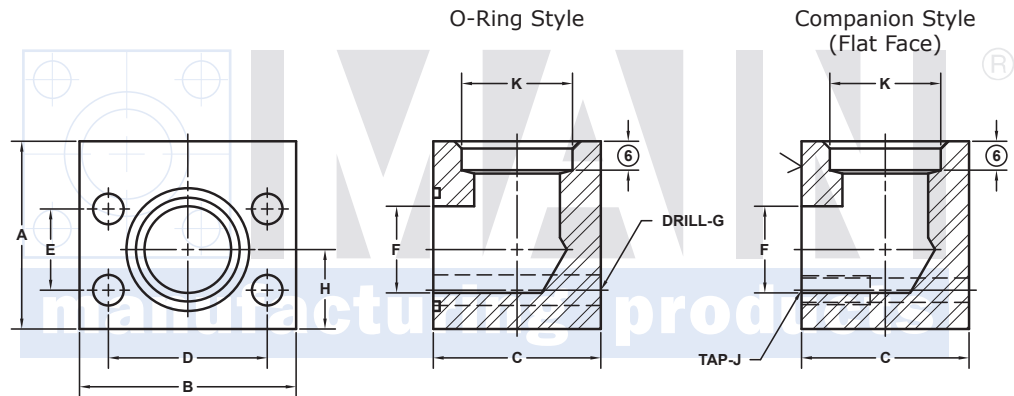
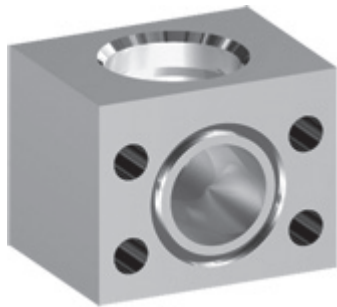
SOCKET WELD PIPE ELBOW FLANGES (Pg 1/2)

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1125-08-08M8	1.75	2.12	1.44	1.500	.688	.50	8.5	.75	.860	MKM 541	M8 x 50	210	1.3
		1126-08-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1125-12-08M10	2.00	2.62	1.70	1.875	.875	.75	10.5	.88	.860	MKM 542	M10 x 60	214	2.1
		1126-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1125-12-12M10	2.00	2.62	1.70	1.875	.875	.75	10.5	.88	1.070	MKM 542	M10 x 60	214	2.0
		1126-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1125-16-12M10	2.25	2.82	1.94	2.062	1.031	1.00	10.5	1.00	1.070	MKM 543	M10 x 65	219	2.8
		1126-16-12M10							M10x1.5			-----	-----	---	
1	1	1125-16-16M10	2.25	2.82	1.94	2.062	1.031	1.00	10.5	1.00	1.335	MKM 543	M10 x 65	219	2.7
		1126-16-16M10							M10x1.5			-----	-----	---	
1 1/4	1	1125-20-16M10†	2.75	3.19	2.40	2.312	1.188	1.25	10.5	1.25	1.335	MKM 4532	M10 x 75	222	4.9
		1126-20-16M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/4	1125-20-20M10†	2.75	3.19	2.40	2.312	1.188	1.25	10.5	1.25	1.680	MKM 4532	M10 x 75	222	4.8
		1126-20-20M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/2	1125-20-24M10†	3.00	3.19	3.00	2.312	1.188	1.25	10.5	1.25	1.920	MKM 4597	M10 x 90	222	6.0
		1126-20-24M10†							M10x1.5			-----	-----	---	
1 1/2	1 1/4	1125-24-20M10†	3.00	3.75	2.90	2.750	1.406	1.50	13.0	1.38	1.680	MKM 4533	M12 x 90	225	7.4
		1126-24-20M12‡							M12x1.75			-----	-----	---	
1 1/2	1 1/2	1125-24-24M12‡	3.00	3.75	2.90	2.750	1.406	1.50	13.0	1.38	1.920	MKM 4533	M12 x 90	225	7.3
		1126-24-24M12‡							M12x1.75			-----	-----	---	
1 1/2	2	1125-24-32M12‡	3.50	3.75	3.50	2.750	1.406	1.50	13.0	1.38	2.411	MKM 3521	M12 x 100	225	9.8
		1126-24-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:

Low Carbon Steel



Model 1125 / 1127

Model 1126 / 1128

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1127-08-08M8	2.00	2.22	1.46	1.594	.718	.50	8.5	.88	.860	MKM 541	M8 x 50	210	1.6
		1128-08-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1127-12-08M10	2.25	2.81	1.70	2.000	.937	.75	10.5	1.00	.860	MKM 542	M10 x 60	214	2.7
		1128-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1127-12-12M10	2.25	2.81	1.70	2.000	.937	.75	10.5	1.00	1.070	MKM 542	M10 x 60	214	2.6
		1128-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1127-16-12M12	2.50	3.19	2.21	2.250	1.093	1.00	12.5	1.12	1.070	MKM 2533	M12 x 75	219	4.2
		1128-16-12M12							M12x1.75			-----	-----	---	
1	1	1127-16-16M12	2.50	3.19	2.21	2.250	1.093	1.00	12.5	1.12	1.335	MKM 2533	M12 x 75	219	4.1
		1128-16-16M12							M12x1.75			-----	-----	---	
1 1/4	1	1127-20-16M12‡	3.00	3.75	2.44	2.625	1.250	1.25	13.0	1.38	1.335	MKM 578	M12 x 80	222	6.5
		1128-20-16M12‡							M12x1.75			-----	-----	---	
1 1/4	1 1/4	1127-20-20M12‡	3.00	3.75	2.44	2.625	1.250	1.25	13.0	1.38	1.680	MKM 578	M12 x 80	222	6.3
		1128-20-20M12‡							M12x1.75			-----	-----	---	
1 1/4	1 1/2	1127-20-24M12‡	3.00	3.75	3.00	2.625	1.250	1.25	13.0	1.38	1.920	MKM 5551	M12 x 90	222	7.6
		1128-20-24M12‡							M12x1.75			-----	-----	---	

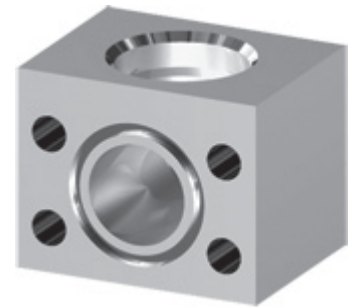
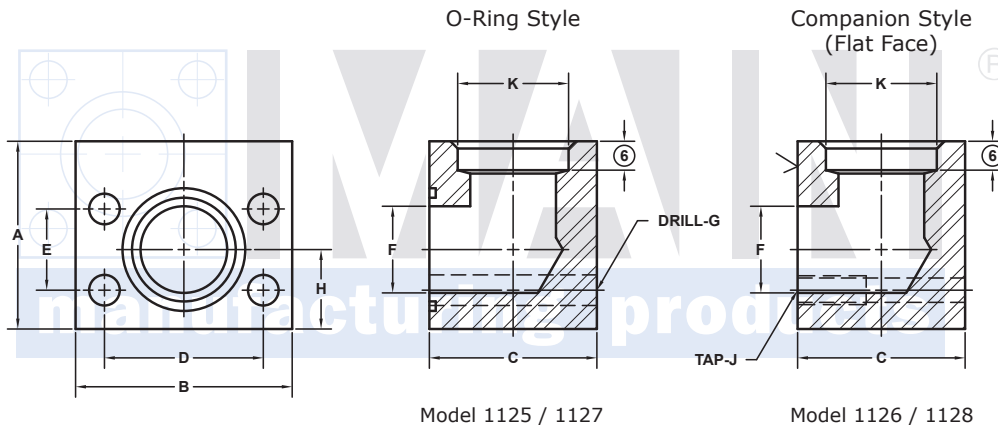
① Order Separately

⑥ C'bore Depth by Pipe Size: 1/2" is .38"; 3/4" to 2" is .50"

SOCKET WELD PIPE ELBOW FLANGES (Pg 2/2)

SAE J518 61 SERIES / ISO6162-1 PATTERN															
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
2	1¼	1125-32-20M12+	3.50	4.00	3.40	3.062	1.688	1.94	13.0	1.62	1.680	MKM 4534	M12 x 100	228	10.4
		1126-32-20M12+							M12x1.75			-----	-----	---	
2	1½	1125-32-24M12+	3.50	4.00	3.40	3.062	1.688	1.94	13.0	1.62	1.920	MKM 4534	M12 x 100	228	10.2
		1126-32-24M12+							M12x1.75			-----	-----	---	
2	2	1125-32-32M12+	3.50	4.00	3.40	3.062	1.688	1.94	13.0	1.62	2.411	MKM 4534	M12 x 100	228	9.9
		1126-32-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2	1125-40-32M12+	4.00	4.50	3.96	3.500	2.000	2.44	13.0	2.00	2.411	MKM 4535	M12 x 120	232	14.9
		1126-40-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2½	1125-40-40M12+	4.00	4.50	3.96	3.500	2.000	2.44	13.0	2.00	2.911	MKM 4535	M12 x 120	232	13.9
		1126-40-40M12+							M12x1.75			-----	-----	---	
3 ^③	2½	1125-48-40M16	5.00	5.31	4.96	4.188	2.438	2.94	17.0	2.25	2.911	MKM 548	M16 x 150	237	26.5
		1126-48-40M16							M16x2			-----	-----	---	
3 ^③	3	1125-48-48M16	5.00	5.31	4.96	4.188	2.438	2.94	17.0	2.25	3.540	MKM 548	M16 x 150	237	24.9
		1126-48-48M16							M16x2			-----	-----	---	
3½ ^④	3	1125-56-48M16	5.50	6.00	5.40	4.750	2.750	3.44	17.0	2.50	3.540	MKM 549	M16 x 160	241	36.8
		1126-56-48M16							M16x2			-----	-----	---	
3½ ^④	3½	1125-56-56M16	5.50	6.00	5.40	4.750	2.750	3.44	17.0	2.50	4.045	MKM 549	M16 x 160	241	34.8
		1126-56-56M16							M16x2			-----	-----	---	
4 ^④	4	1125-64-64M16	6.00	6.38	5.96	5.125	3.062	3.94	17.0	2.75	4.550	MKM 550	M16 x 180	245	41.9
		1126-64-64M16							M16x2			-----	-----	---	
5 ^④	5	1125-80-80M16	7.00	7.25	6.90	6.000	3.625	4.94	17.0	3.38	5.635	MKM 1569	M16 x 200	253	60.9
		1126-80-80M16							M16x2			-----	-----	---	

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN															
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1½	1¼	1127-24-20M16	3.50	4.50	2.96	3.125	1.437	1.50	17.0	1.62	1.680	MKM 553	M16 x 100	225	11.0
		1128-24-20M16							M16x2			-----	-----	---	
1½	1½	1127-24-24M16	3.50	4.50	2.96	3.125	1.437	1.50	17.0	1.62	1.920	MKM 553	M16 x 100	225	10.7
		1128-24-24M16							M16x2			-----	-----	---	
1½	2	1127-24-32M16	3.50	4.50	3.50	3.125	1.437	1.50	17.0	1.62	2.411	MKM 1598	M16 x 120	225	12.2
		1128-24-32M16							M16x2			-----	-----	---	
2	1½	1127-32-24M20	4.00	5.25	3.46	3.812	1.750	1.94	21.0	2.00	1.920	MKM 554	M20 x 120	228	16.5
		1128-32-24M20							M20x2.5			-----	-----	---	
2	2	1127-32-32M20	4.00	5.25	3.46	3.812	1.750	1.94	21.0	2.00	2.411	MKM 554	M20 x 120	228	15.9
		1128-32-32M20							M20x2.5			-----	-----	---	
2½	2	1127-40-32M24	5.50	6.88	4.50	4.875	2.312	2.44	25.5	2.50	2.411	MKM 2557	M24 x 150	232	40.0
		1128-40-32M24							M24x3			-----	-----	---	
2½	2½	1127-40-40M24	5.50	6.88	4.50	4.875	2.312	2.44	25.5	2.50	2.911	MKM 2557	M24 x 150	232	38.6
		1128-40-40M24							M24x3			-----	-----	---	
3	3	1127-48-48M30	6.00	8.50	5.00	6.000	2.812	2.94	32.0	3.00	3.540	MKM 556	M30 x 180	237	56.5
		1128-48-48M30							M30x3.5			-----	-----	---	

① Order Separately ② 2500 PSI Max ③ 2000 PSI Max ④ 500 PSI Max

⑥ C'bore Depth by Pipe Size: 1 1/4" to 2 1/2" is .50" (2 1/2" 62 Series is .62"); 3" to 5" is .62"

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. + Also Available for M12 Bolts + Also Available for M14 Bolts

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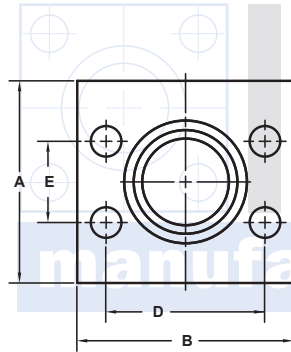
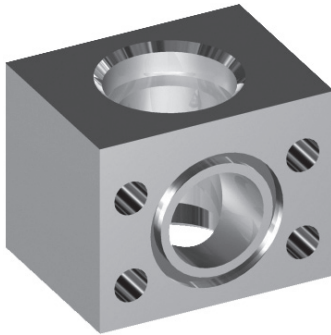
SOCKET WELD PIPE BRANCH TEE FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

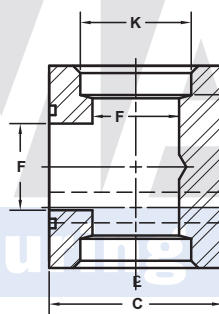
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1165-08-08M8	2.00	2.12	1.44	1.500	.688	.50	8.5	.38	.860	MKM 541	M8 x 50	210	1.3
		1166-08-08M8							M8x1.25			-----	-----	---	
3/4	3/4	1165-12-12M10	2.25	2.62	1.70	1.875	.875	.75	10.5	.50	1.070	MKM 542	M10 x 60	214	2.2
		1166-12-12M10							M10x1.5			-----	-----	---	
1	1	1165-16-16M10	2.50	2.82	1.94	2.062	1.031	1.00	10.5	.50	1.335	MKM 543	M10 x 65	219	2.8
		1166-16-16M10							M10x1.5			-----	-----	---	
1 1/4	1 1/4	1165-20-20M10†	3.00	3.19	2.40	2.312	1.188	1.25	10.5	.50	1.680	MKM 4532	M10 x 75	222	4.5
		1166-20-20M10†							M10x1.5			-----	-----	---	
1 1/2	1 1/2	1165-24-24M12‡	3.50	3.75	2.90	2.750	1.406	1.50	13.0	.50	1.920	MKM 4533	M12 x 90	225	7.7
		1166-24-24M12‡							M12x1.75			-----	-----	---	
2	2	1165-32-32M12‡	3.75	4.00	3.40	3.062	1.688	1.94	13.0	.50	2.411	MKM 4534	M12 x 100	228	9.3
		1166-32-32M12‡							M12x1.75			-----	-----	---	
2 1/2 ^②	2 1/2	1165-40-40M12‡	4.00	4.50	3.96	3.500	2.000	2.44	13.0	.50	2.911	MKM 4535	M12 x 120	232	12.0
		1166-40-40M12‡							M12x1.75			-----	-----	---	
3 ^③	3	1165-48-48M16	5.00	5.31	4.96	4.188	2.438	2.94	17.0	.62	3.540	MKM 548	M16 x 150	237	22.2
		1166-48-48M16							M16x2			-----	-----	---	
3 1/2 ^④	3 1/2	1165-56-56M16	6.00	6.00	5.40	4.750	2.750	3.44	17.0	.62	4.045	MKM 549	M16 x 160	241	32.5
		1166-56-56M16							M16x2			-----	-----	---	
4 ^④	4	1165-64-64M16	6.00	6.38	5.96	5.125	3.062	3.94	17.0	.62	4.550	MKM 550	M16 x 180	245	35.5
		1166-64-64M16							M16x2			-----	-----	---	
5 ^④	5	1165-80-80M16	7.25	7.25	6.90	6.000	3.625	4.94	17.0	.62	5.635	MKM 1569	M16 x 200	253	50.7
		1166-80-80M16							M16x2			-----	-----	---	

MATERIAL:

Low Carbon Steel

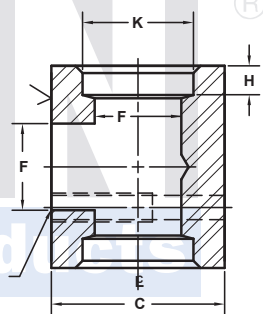


O-Ring Style



Model 1165 / 1167

Companion Style
(Flat Face)



Model 1166 / 1168

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1167-08-08M8	2.00	2.22	1.46	1.594	.718	.50	8.5	.38	.860	MKM 541	M8 x 50	210	1.5
		1168-08-08M8							M8x1.25			-----	-----	---	
3/4	3/4	1167-12-12M10	2.50	2.81	1.70	2.000	.937	.75	10.5	.50	1.070	MKM 542	M10 x 60	214	2.7
		1168-12-12M10							M10x1.5			-----	-----	---	
1	1	1167-16-16M12	2.75	3.19	2.21	2.250	1.093	1.00	12.5	.50	1.335	MKM 2533	M12 x 75	219	4.2
		1168-16-16M12							M12x1.75			-----	-----	---	
1 1/4	1 1/4	1167-20-20M12+	3.00	3.75	2.44	2.625	1.250	1.25	13.0	.50	1.680	MKM 578	M12 x 80	222	5.7
		1168-20-20M12+							M12x1.75			-----	-----	---	
1 1/2	1 1/2	1167-24-24M16	3.50	4.50	2.96	3.125	1.437	1.50	17.0	.50	1.920	MKM 553	M16 x 100	225	9.7
		1168-24-24M16							M16x2			-----	-----	---	
2	2	1167-32-32M20	4.00	5.25	3.46	3.812	1.750	1.94	21.0	.50	2.411	MKM 554	M20 x 120	228	14.5
		1168-32-32M20							M20x2.5			-----	-----	---	
2 1/2	2 1/2	1167-40-40M24	5.50	6.88	4.50	4.875	2.312	2.44	25.5	.62	2.911	MKM 2557	M24 x 150	232	35.4
		1168-40-40M24							M24x3			-----	-----	---	
3	3	1167-48-48M30	6.00	8.50	5.00	6.000	2.812	2.94	32.0	.62	3.540	MKM 556	M30 x 180	237	51.0
		1168-48-48M30							M30x3.5			-----	-----	---	

① Order Separately

② 2500 PSI Max

③ 2000 PSI Max

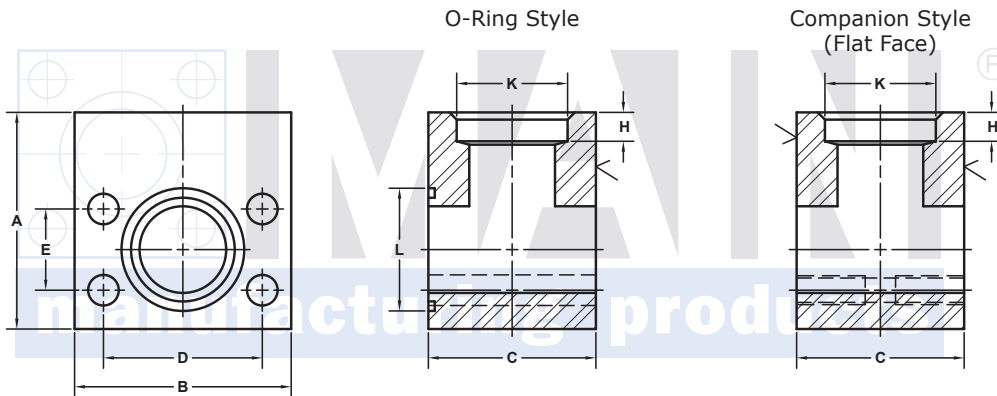
④ 500 PSI Max

SOCKET WELD PIPE RUN TEE FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

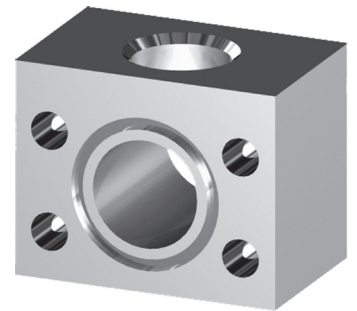
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	H	K	L	O-RING ^①	WT
1/2	1/2	1189-08-08M8	1.75	2.12	1.44	1.500	.688	.38	.860	1.000	210	1.3
		1190-08-08M8								---	---	
3/4	3/4	1189-12-12M10	2.00	2.62	1.70	1.875	.875	.50	1.070	1.250	214	2.0
		1190-12-12M10								---	---	
1	1	1189-16-16M10	2.25	2.82	1.94	2.062	1.031	.50	1.335	1.562	219	2.7
		1190-16-16M10								---	---	
1 1/4	1 1/4	1189-20-20M10+	2.75	3.19	2.40	2.312	1.188	.50	1.680	1.750	222	4.8
		1190-20-20M10+								---	---	
1 1/2	1 1/2	1189-24-24M12+	3.00	3.75	2.90	2.750	1.406	.50	1.920	2.125	225	7.0
		1190-24-24M12+								---	---	
2	2	1189-32-32M12+	3.50	4.00	3.40	3.062	1.688	.50	2.411	2.500	228	9.5
		1190-32-32M12+								---	---	
2 1/2 ^②	2 1/2	1189-40-40M12+	4.00	4.50	3.96	3.500	2.000	.50	2.911	3.000	232	15.0
		1190-40-40M12+								---	---	
3 ^③	3	1189-48-48M16	5.00	5.31	4.96	4.188	2.438	.62	3.540	3.625	237	27.2
		1190-48-48M16								---	---	
3 1/2 ^④	3 1/2	1189-56-56M16	5.50	6.00	5.40	4.750	2.750	.62	4.045	4.109	241	37.0
		1190-56-56M16								---	---	
4 ^④	4	1189-64-64M16	6.00	6.38	5.96	5.125	3.062	.62	4.550	4.609	245	48.0
		1190-64-64M16								---	---	
5 ^④	5	1189-80-80M16	7.00	7.25	6.90	6.000	3.625	.62	5.635	5.609	253	60.0
		1190-80-80M16								---	---	

MATERIAL:
Low Carbon Steel



Model 1189 / 1191

Model 1190 / 1192



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	H	K	L	O-RING ^①	WT
1/2	1/2	1191-08-08M8	2.00	2.22	1.46	1.594	.718	.38	.860	1.000	210	1.5
		1192-08-08M8								---	---	
3/4	3/4	1191-12-12M10	2.25	2.81	1.70	2.000	.937	.50	1.070	1.250	214	2.5
		1192-12-12M10								---	---	
1	1	1191-16-16M12	2.50	3.19	2.21	2.250	1.093	.50	1.335	1.562	219	4.5
		1192-16-16M12								---	---	
1 1/4	1 1/4	1191-20-20M12+	3.00	3.75	2.44	2.625	1.250	.50	1.680	1.750	222	6.5
		1192-20-20M12+								---	---	
1 1/2	1 1/2	1191-24-24M16	3.50	4.50	2.96	3.125	1.437	.50	1.920	2.125	225	10.0
		1192-24-24M16								---	---	
2	2	1191-32-32M20	4.00	5.25	3.46	3.812	1.750	.50	2.411	2.500	228	15.0
		1192-32-32M20								---	---	
2 1/2	2 1/2	1191-40-40M24	5.50	6.88	4.50	4.875	2.312	.62	2.911	3.000	232	34.2
		1192-40-40M24								---	---	
3	3	1191-48-48M30	6.00	8.50	5.00	6.000	2.812	.62	3.540	3.625	237	48.0
		1192-48-48M30								---	---	

① Includes Buna-N O-Ring ② 2500 PSI Max ③ 2000 PSI Max ④ 500 PSI Max

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. + Also Available for M12 Bolts + Also Available for M14 Bolts

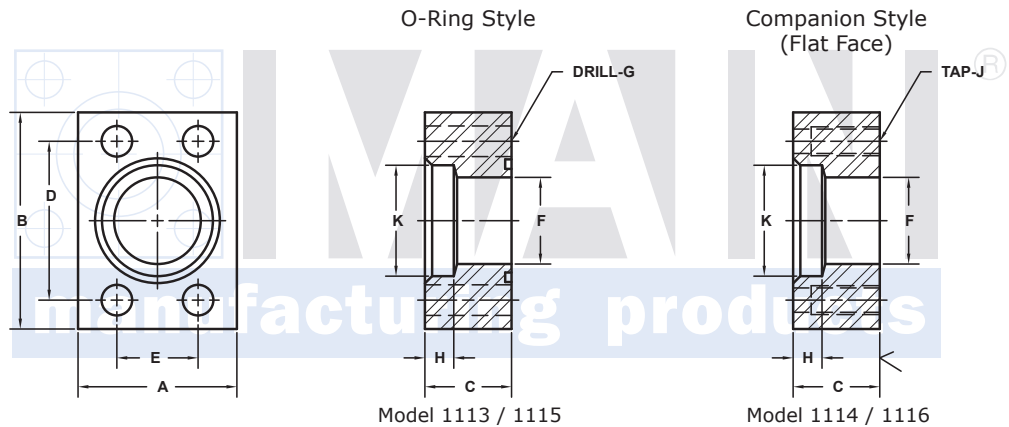
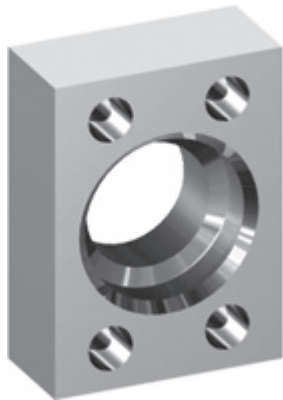
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SOCKET WELD TUBE IN-LINE FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	TUBE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1113-08-08M8	1.50	2.12	.75	1.500	.688	.31	8.5	.38	.510	MKM 501	M8 x 30	210	.6
		1114-08-08M8							M8x1.25			-----	-----	---	
1/2	3/4	1113-08-12M8	1.50	2.12	.75	1.500	.688	.50	8.5	.38	.760	MKM 501	M8 x 30	210	.5
		1114-08-12M8							M8x1.25			-----	-----	---	
3/4	3/4	1113-12-12M10	1.75	2.62	1.00	1.875	.875	.50	10.5	.38	.760	MKM 502	M10 x 40	214	.9
		1114-12-12M10							M10x1.5			-----	-----	---	
3/4	1	1113-12-16M10	1.75	2.62	1.00	1.875	.875	.75	10.5	.50	1.010	MKM 502	M10 x 40	214	.8
		1114-12-16M10							M10x1.5			-----	-----	---	
1	1	1113-16-16M10	2.00	2.82	1.00	2.062	1.031	.75	10.5	.50	1.010	MKM 503	M10 x 40	219	1.3
		1114-16-16M10							M10x1.5			-----	-----	---	
1	1 1/4	1113-16-20M10	2.00	2.82	1.00	2.062	1.031	1.00	10.5	.50	1.260	MKM 503	M10 x 40	219	1.2
		1114-16-20M10							M10x1.5			-----	-----	---	
1 1/4	1 1/4	1113-20-20M10†	2.50	3.19	1.00	2.312	1.188	1.00	10.5	.50	1.260	MKM 3524	M10 x 40	222	1.7
		1114-20-20M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/2	1113-20-24M10†	2.50	3.19	1.00	2.312	1.188	1.25	10.5	.50	1.510	MKM 3524	M10 x 40	222	1.6
		1114-20-24M10†							M10x1.5			-----	-----	---	
1 1/2	1 1/2	1113-24-24M12‡	2.75	3.75	1.25	2.750	1.406	1.25	13.0	.50	1.510	MKM 3596	M12 x 50	225	2.7
		1114-24-24M12‡							M12x1.75			-----	-----	---	
1 1/2	2	1113-24-32M12‡	2.75	3.75	1.25	2.750	1.406	1.50	13.0	.50	2.010	MKM 3596	M12 x 50	225	2.5
		1114-24-32M12‡							M12x1.75			-----	-----	---	
2	2	1113-32-32M12‡	3.25	4.00	1.50	3.062	1.688	1.50	13.0	.50	2.010	MKM 3501	M12 x 55	228	4.1
		1114-32-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	TUBE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	3/4	1115-08-12M8	1.75	2.22	1.00	1.594	.718	.50	8.5	.50	.760	MKM 512	M8 x 35	210	.8
		1116-08-12M8							M8x1.25			-----	-----	---	
3/4	1	1115-12-16M10	2.00	2.81	1.00	2.000	.937	.75	10.5	.50	1.010	MKM 502	M10 x 40	214	1.2
		1116-12-16M10							M10x1.5			-----	-----	---	
1	1	1115-16-16M12	2.25	3.19	1.00	2.250	1.093	.75	12.5	.50	1.010	MKM 513	M12 x 45	219	1.6
		1116-16-16M12							M12x1.75			-----	-----	---	
1	1 1/4	1115-16-20M12	2.25	3.19	1.00	2.250	1.093	1.00	12.5	.50	1.260	MKM 513	M12 x 45	219	1.5
		1116-16-20M12							M12x1.75			-----	-----	---	
1 1/4	1 1/4	1115-20-20M12‡	2.75	3.75	1.25	2.625	1.250	1.00	13.0	.50	1.260	MKM 1502	M12 x 50	222	2.9
		1116-20-20M12‡							M12x1.75			-----	-----	---	
1 1/4	1 1/2	1115-20-24M12‡	2.75	3.75	1.25	2.625	1.250	1.25	13.0	.50	1.510	MKM 1502	M12 x 50	222	2.8
		1116-20-24M12‡							M12x1.75			-----	-----	---	
1 1/2	2	1115-24-32M16	3.25	4.50	1.50	3.125	1.437	1.50	17.0	.50	2.010	MKM 515	M16 x 60	225	4.7
		1116-24-32M16							M16x2			-----	-----	---	
2	2	1115-32-32M20	4.00	5.25	1.75	3.812	1.750	1.50	21.0	.50	2.010	MKM 516	M20 x 70	228	8.3
		1116-32-32M20							M20x2.5			-----	-----	---	

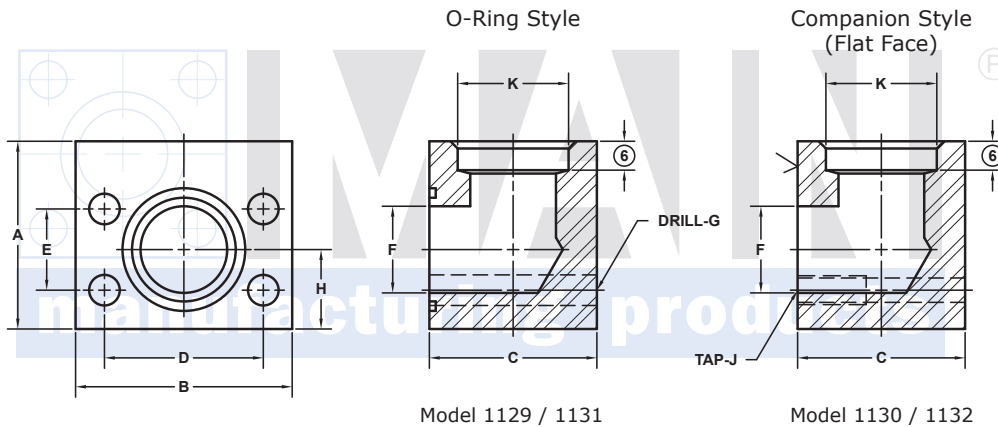
① Order Separately

SOCKET WELD TUBE ELBOW FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	TUBE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1129-08-08M8	1.75	2.12	1.44	1.500	.688	.50	8.5	.75	.510	MKM 541	M8 x 50	210	1.3
		1130-08-08M8							M8x1.25			-----	-----	---	
1/2	3/4	1129-08-12M8	1.75	2.12	1.44	1.500	.688	.50	8.5	.75	.760	MKM 541	M8 x 50	210	1.2
		1130-08-12M8							M8x1.25			-----	-----	---	
3/4	3/4	1129-12-12M10	2.00	2.62	1.70	1.875	.875	.75	10.5	.88	.760	MKM 542	M10 x 60	214	2.0
		1130-12-12M10							M10x1.5			-----	-----	---	
3/4	1	1129-12-16M10	2.00	2.62	1.70	1.875	.875	.75	10.5	.88	1.010	MKM 542	M10 x 60	214	1.9
		1130-12-16M10							M10x1.5			-----	-----	---	
1	1	1129-16-16M10	2.25	2.82	1.94	2.062	1.031	1.00	10.5	1.00	1.010	MKM 543	M10 x 65	219	2.7
		1130-16-16M10							M10x1.5			-----	-----	---	
1	1 1/4	1129-16-20M10	2.25	2.82	1.94	2.062	1.031	1.00	10.5	1.00	1.260	MKM 543	M10 x 65	219	2.6
		1130-16-20M10							M10x1.5			-----	-----	---	
1 1/4	1 1/4	1129-20-20M10†	2.75	3.19	2.40	2.312	1.188	1.25	10.5	1.25	1.260	MKM 4532	M10 x 75	222	4.6
		1130-20-20M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/2	1129-20-24M10†	2.75	3.19	2.40	2.312	1.188	1.25	10.5	1.25	1.510	MKM 4532	M10 x 75	222	4.4
		1130-20-24M10†							M10x1.5			-----	-----	---	
1 1/2	1 1/2	1129-24-24M12‡	3.00	3.75	2.90	2.750	1.406	1.50	13.0	1.38	1.510	MKM 4533	M12 x 90	225	7.0
		1130-24-24M12‡							M12x1.75			-----	-----	---	
1 1/2	2	1129-24-32M12‡	3.00	3.75	2.90	2.750	1.406	1.50	13.0	1.38	2.010	MKM 4533	M12 x 90	225	6.7
		1130-24-32M12‡							M12x1.75			-----	-----	---	
2	2	1129-32-32M12‡	3.50	4.00	3.40	3.062	1.688	1.50	13.0	1.62	2.010	MKM 4534	M12 x 100	228	9.9
		1130-32-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	TUBE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	3/4	1131-08-12M8	2.00	2.22	1.46	1.594	.718	.50	8.5	.88	.760	MKM 541	M8 x 50	210	1.5
		1132-08-12M8							M8x1.25			-----	-----	---	
3/4	1	1131-12-16M10	2.25	2.81	1.70	2.000	.937	.75	10.5	1.00	1.010	MKM 542	M10 x 60	214	2.4
		1132-12-16M10							M10x1.5			-----	-----	---	
1	1	1131-16-16M12	2.50	3.19	2.21	2.250	1.093	1.00	12.5	1.12	1.010	MKM 2533	M12 x 75	219	4.0
		1132-16-16M12							M12x1.75			-----	-----	---	
1	1 1/4	1131-16-20M12	2.50	3.19	2.21	2.250	1.093	1.00	12.5	1.12	1.260	MKM 2533	M12 x 75	219	3.9
		1132-16-20M12							M12x1.75			-----	-----	---	
1 1/4	1 1/4	1131-20-20M12+	3.00	3.75	2.44	2.625	1.250	1.25	13.0	1.38	1.260	MKM 578	M12 x 80	222	6.3
		1132-20-20M12+							M12x1.75			-----	-----	---	
1 1/4	1 1/2	1131-20-24M12+	3.00	3.75	2.44	2.625	1.250	1.25	13.0	1.38	1.510	MKM 578	M12 x 80	222	6.1
		1132-20-24M12+							M12x1.75			-----	-----	---	
1 1/2	2	1131-24-32M16	3.50	4.50	2.96	3.125	1.437	1.50	17.0	1.62	2.010	MKM 553	M16 x 100	225	10.1
		1132-24-32M16							M16x2			-----	-----	---	
2	2	1131-32-32M20	4.00	5.25	3.46	3.812	1.750	1.50	21.0	2.00	2.010	MKM 554	M20 x 120	228	15.9
		1132-32-32M20							M20x2.5			-----	-----	---	

① Order Separately

② C'bore Depth by Pipe Size: 1/2" and 3/4" is .38"; 1" to 2" is .50"

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. + Also Available for M12 Bolts + Also Available for M14 Bolts

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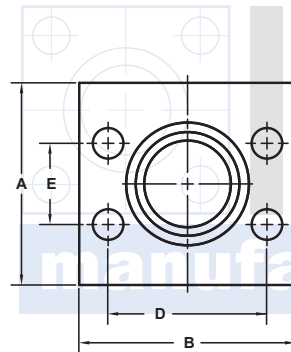
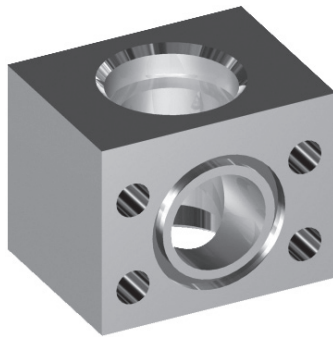
SOCKET WELD TUBE BRANCH TEE FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

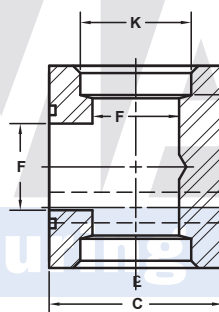
FLANGE SIZE	TUBE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			BOLT SIZE	O-RING		
1/2	1/2	1169-08-08M8	2.00	2.12	1.44	1.500	.688	.31	8.5	.38	.510	MKM 541	M8 x 50	210	1.5
		1170-08-08M8							M8x1.25			-----	-----	---	
1/2	3/4	1169-08-12M8	2.00	2.12	1.44	1.500	.688	.50	8.5	.38	.760	MKM 541	M8 x 50	210	1.4
		1170-08-12M8							M8x1.25			-----	-----	---	
3/4	3/4	1169-12-12M10	2.25	2.62	1.70	1.875	.875	.62	10.5	.38	.760	MKM 542	M10 x 60	214	2.3
		1170-12-12M10							M10x1.5			-----	-----	---	
3/4	1	1169-12-16M10	2.25	2.62	1.70	1.875	.875	.75	10.5	.50	1.010	MKM 542	M10 x 60	214	2.1
		1170-12-16M10							M10x1.5			-----	-----	---	
1	1	1169-16-16M10	2.50	2.82	1.94	2.062	1.031	.75	10.5	.50	1.010	MKM 543	M10 x 65	219	3.0
		1170-16-16M10							M10x1.5			-----	-----	---	
1	1 1/4	1169-16-20M10	2.50	2.82	1.94	2.062	1.031	1.00	10.5	.50	1.260	MKM 543	M10 x 65	219	2.7
		1170-16-20M10							M10x1.5			-----	-----	---	
1 1/4	1 1/4	1169-20-20M10†	3.00	3.19	2.40	2.312	1.188	1.00	10.5	.50	1.260	MKM 4532	M10 x 75	222	4.9
		1170-20-20M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/2	1169-20-24M10†	3.00	3.19	2.40	2.312	1.188	1.25	10.5	.50	1.510	MKM 4532	M10 x 75	222	4.5
		1170-20-24M10†							M10x1.5			-----	-----	---	
1 1/2	1 1/2	1169-24-24M12‡	3.50	3.75	2.90	2.750	1.406	1.25	13.0	.50	1.510	MKM 4533	M12 x 90	225	8.1
		1170-24-24M12‡							M12x1.75			-----	-----	---	
1 1/2	1 3/4	1169-24-28M12‡	3.50	3.75	2.90	2.750	1.406	1.50	13.0	.50	1.760	MKM 4533	M12 x 90	225	7.6
		1170-24-28M12‡							M12x1.75			-----	-----	---	
1 1/2	2	1169-24-32M12‡	3.50	3.75	2.90	2.750	1.406	1.50	13.0	.50	2.010	MKM 4533	M12 x 90	225	7.4
		1170-24-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:

Low Carbon Steel

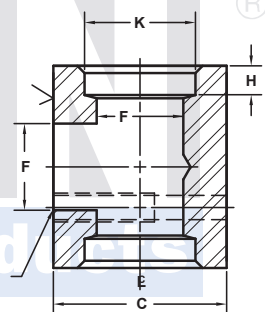


O-Ring Style



Model 1169 / 1171

Companion Style
(Flat Face)



Model 1170 1172

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	TUBE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			BOLT SIZE	O-RING		
1/2	3/4	1171-08-12M8	2.00	2.22	1.46	1.594	.718	.50	8.5	.38	.760	MKM 541	M8 x 50	210	1.5
		1172-08-12M8							M8x1.25			-----	-----	---	
3/4	1	1171-12-16M10	2.50	2.81	1.70	2.000	.937	.75	10.5	.50	1.010	MKM 542	M10 x 60	214	2.6
		1172-12-16M10							M10x1.5			-----	-----	---	
1	1	1171-16-16M12	2.75	3.19	2.21	2.250	1.093	.75	12.5	.50	1.010	MKM 2533	M12 x 75	219	4.4
		1172-16-16M12							M12x1.75			-----	-----	---	
1	1 1/4	1171-16-20M12	2.75	3.19	2.21	2.250	1.093	1.00	12.5	.50	1.260	MKM 2533	M12 x 75	219	4.1
		1172-16-20M12							M12x1.75			-----	-----	---	
1 1/4	1 1/4	1171-20-20M12‡	3.00	3.75	2.44	2.625	1.250	1.00	13.0	.50	1.260	MKM 578	M12 x 80	222	6.0
		1172-20-20M12‡							M12x1.75			-----	-----	---	
1 1/4	1 1/2	1171-20-24M12‡	3.00	3.75	2.44	2.625	1.250	1.25	13.0	.50	1.510	MKM 578	M12 x 80	222	5.7
		1172-20-24M12‡							M12x1.75			-----	-----	---	
1 1/2	1 3/4	1171-24-28M16	3.50	4.50	2.96	3.125	1.437	1.50	17.0	.50	1.760	MKM 553	M16 x 100	225	9.6
		1172-24-28M16							M16x2			-----	-----	---	
1 1/2	2	1171-24-32M16	3.50	4.50	2.96	3.125	1.437	1.50	17.0	.50	2.010	MKM 553	M16 x 100	225	9.4
		1172-24-32M16							M16x2			-----	-----	---	

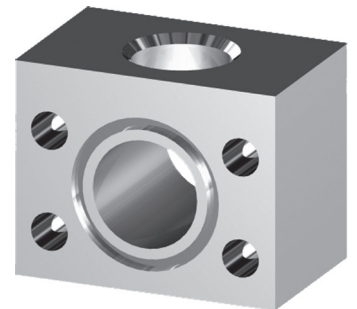
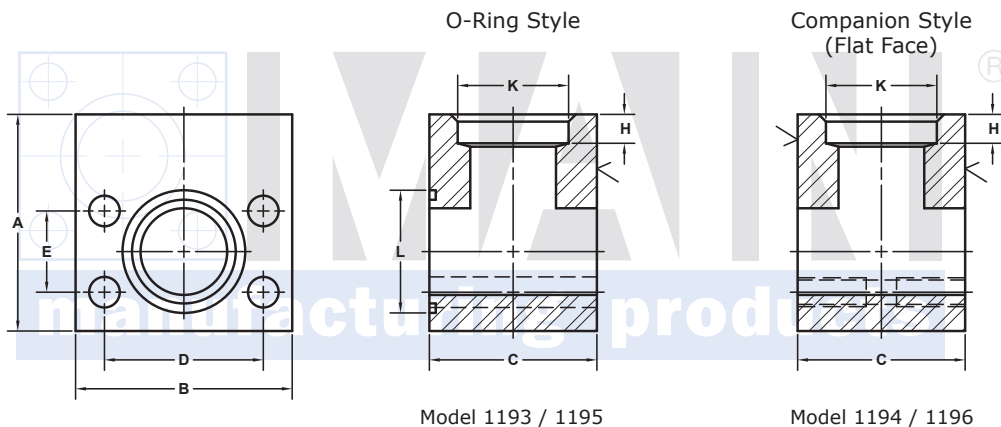
① Order Separately

SOCKET WELD TUBE RUN TEE FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	TUBE SIZE	PART NUMBER	A	B	C	D	E	H	K	L	O-RING ^①	WT
1/2	1/2	1193-08-08M8	1.75	2.12	1.44	1.500	.688	.38	.510	1.000	210	1.2
		1194-08-08M8								---	---	
1/2	3/4	1193-08-12M8	1.75	2.12	1.44	1.500	.688	.38	.760	1.000	210	1.2
		1194-08-12M8								---	---	
3/4	3/4	1193-12-12M10	2.00	2.62	1.70	1.875	.875	.50	.760	1.250	214	2.0
		1194-12-12M10								---	---	
3/4	1	1193-12-16M10	2.00	2.62	1.70	1.875	.875	.50	1.010	1.250	214	1.9
		1194-12-16M10								---	---	
1	1	1193-16-16M10	2.25	2.82	1.94	2.062	1.031	.50	1.010	1.562	219	2.6
		1194-16-16M10								---	---	
1	1 1/4	1193-16-20M10	2.25	2.82	1.94	2.062	1.031	.50	1.260	1.562	219	2.5
		1194-16-20M10								---	---	
1 1/4	1 1/4	1193-20-20M10+	2.75	3.19	2.40	2.312	1.188	.50	1.260	1.750	222	4.4
		1194-20-20M10+								---	---	
1 1/4	1 1/2	1193-20-24M10+	2.75	3.19	2.40	2.312	1.188	.50	1.510	1.750	222	4.2
		1194-20-24M10+								---	---	
1 1/2	1 1/2	1193-24-24M12+	3.00	3.75	2.90	2.750	1.406	.50	1.510	2.125	225	6.6
		1194-24-24M12+								---	---	
1 1/2	1 3/4	1193-24-28M12+	3.00	3.75	2.90	2.750	1.406	.50	1.760	2.125	225	6.5
		1194-24-28M12+								---	---	
1 1/2	2	1193-24-32M12+	3.00	3.75	2.90	2.750	1.406	.50	2.010	2.125	225	6.4
		1194-24-32M12+								---	---	

MATERIAL:
Low Carbon Steel



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SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	TUBE SIZE	PART NUMBER	A	B	C	D	E	H	K	L	O-RING ^①	WT
1/2	3/4	1195-08-12M8	2.00	2.22	1.46	1.594	.718	.38	.760	1.000	210	1.5
		1196-08-12M8								---	---	
3/4	1	1195-12-16M10	2.25	2.81	1.70	2.000	.937	.50	1.010	1.250	214	2.4
		1196-12-16M10								---	---	
1	1	1195-16-16M12	2.50	3.19	2.21	2.250	1.093	.50	1.010	1.562	219	3.9
		1196-16-16M12								---	---	
1	1 1/4	1195-16-20M12	2.50	3.19	2.21	2.250	1.093	.50	1.260	1.562	219	3.8
		1196-16-20M12								---	---	
1 1/4	1 1/4	1195-20-20M12+	3.00	3.75	2.44	2.625	1.250	.50	1.260	1.750	222	6.0
		1196-20-20M12+								---	---	
1 1/4	1 1/2	1195-20-24M12+	3.00	3.75	2.44	2.625	1.250	.50	1.510	1.750	222	5.8
		1196-20-24M12+								---	---	
1 1/2	1 3/4	1195-24-28M16	3.50	4.50	2.96	3.125	1.437	.50	1.760	2.125	225	9.9
		1196-24-28M16								---	---	
1 1/2	2	1195-24-32M16	3.50	4.50	2.96	3.125	1.437	.50	2.010	2.125	225	9.7
		1196-24-32M16								---	---	

① Includes Buna N O-Ring

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. + Also Available for M12 Bolts + Also Available for M14 Bolts

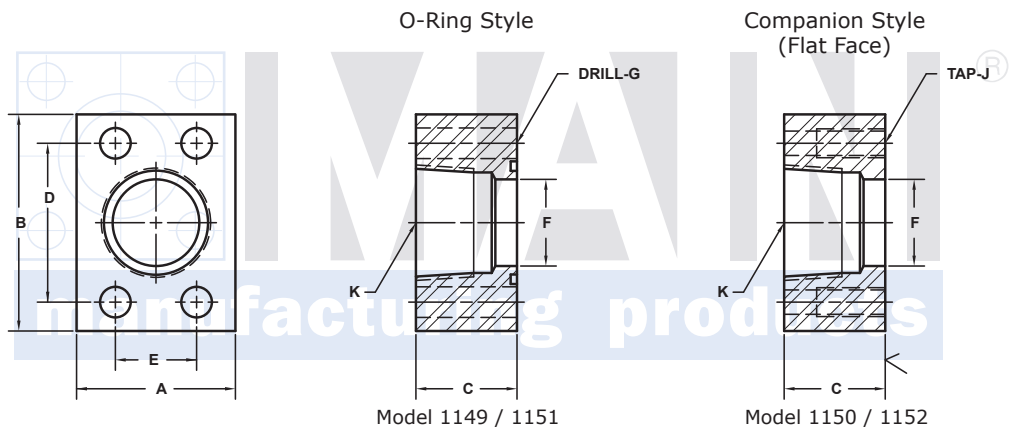
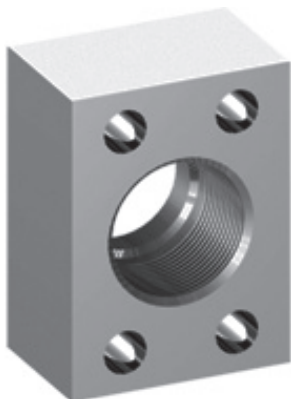
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NPTF THREADED IN-LINE FLANGES (Pg 1/2)

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm		K NPTF	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1149-08-08M8	1.50	2.12	1.25	1.500	.688	.50	8.5		1/2	MKM 519	M8 x 45	210	.8
		1150-08-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1149-12-08M10	1.75	2.62	1.25	1.875	.875	.70	10.5		1/2	MKM 520	M10 x 45	214	1.3
		1150-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1149-12-12M10	1.75	2.62	1.25	1.875	.875	.75	10.5		3/4	MKM 520	M10 x 45	214	1.2
		1150-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1149-16-12M10	2.00	2.82	1.50	2.062	1.031	.92	10.5		3/4	MKM 521	M10 x 50	219	1.9
		1150-16-12M10							M10x1.5			-----	-----	---	
1	1	1149-16-16M10	2.00	2.82	1.50	2.062	1.031	1.00	10.5		1	MKM 521	M10 x 50	219	1.7
		1150-16-16M10							M10x1.5			-----	-----	---	
1 1/4	1	1149-20-16M10†	2.50	3.19	1.50	2.312	1.188	1.16	10.5		1	MKM 3526	M10 x 50	222	2.6
		1150-20-16M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/4	1149-20-20M10†	2.50	3.19	1.50	2.312	1.188	1.25	10.5		1 1/4	MKM 3526	M10 x 50	222	2.3
		1150-20-20M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/2	-----	3.00	3.19	3.00	2.312	1.188	1.25	---		1 1/2	-----	-----	---	6.4
		1150-20-24M10†							M10x1.5			-----	-----	---	
1 1/2	1 1/4	1149-24-20M12‡	2.75	3.75	1.75	2.750	1.406	1.50	13.0		1 1/4	MKM 2565	M12 x 60	225	3.8
		1150-24-20M12‡							M12x1.75			-----	-----	---	
1 1/2	1 1/2	1149-24-24M12‡	2.75	3.75	1.75	2.750	1.406	1.50	13.0		1 1/2	MKM 2565	M12 x 60	225	3.6
		1150-24-24M12‡							M12x1.75			-----	-----	---	
1 1/2	2	-----	3.50	3.75	3.50	2.750	1.406	1.50	---		2	-----	-----	---	10.1
		1150-24-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:
Low Carbon Steel^⑤



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm		K NPTF	MOUNTING KIT®			WT
									Jmm			PART NO.	SCREW SIZE	O-RING	
1½	1½	1151-08-08M8	1.75	2.22	1.25	1.594	.718	.50	8.5		1/2	MKM 519	M8 x 45	210	1.1
		1152-08-08M8							M8x1.25			-----	-----	---	
¾	1½	1151-12-08M10	2.00	2.81	1.25	2.000	.937	.70	10.5		1/2	MKM 520	M10 x 45	214	1.6
		1152-12-08M10							M10x1.5			-----	-----	---	
¾	¾	1151-12-12M10	2.00	2.81	1.25	2.000	.937	.75	10.5		¾	MKM 520	M10 x 45	214	1.5
		1152-12-12M10							M10x1.5			-----	-----	---	
1	¾	1151-16-12M12	2.25	3.19	1.50	2.250	1.093	.92	12.5		¾	MKM 525	M12 x 55	219	2.4
		1152-16-12M12							M12x1.75			-----	-----	---	
1	1	1151-16-16M12	2.25	3.19	1.50	2.250	1.093	1.00	12.5		1	MKM 525	M12 x 55	219	2.3
		1152-16-16M12							M12x1.75			-----	-----	---	
1¼	1	1151-20-16M12‡	3.00	3.75	1.50	2.625	1.250	1.16	13.0		1	MKM 522	M12 x 55	222	3.9
		1152-20-16M12‡							M12x1.75			-----	-----	---	
1¼	1¼	1151-20-20M12‡	3.00	3.75	1.50	2.625	1.250	1.25	13.0		1 1/4	MKM 522	M12 x 55	222	3.7
		1152-20-20M12‡							M12x1.75			-----	-----	---	
1¼	1½	-----	3.00	3.75	3.00	2.625	1.250	1.25	---		1 1/2	-----	-----	---	7.9
		1152-20-24M12‡							M12x1.75			-----	-----	---	

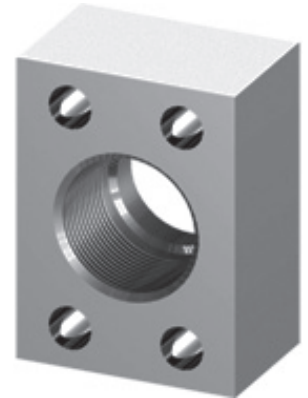
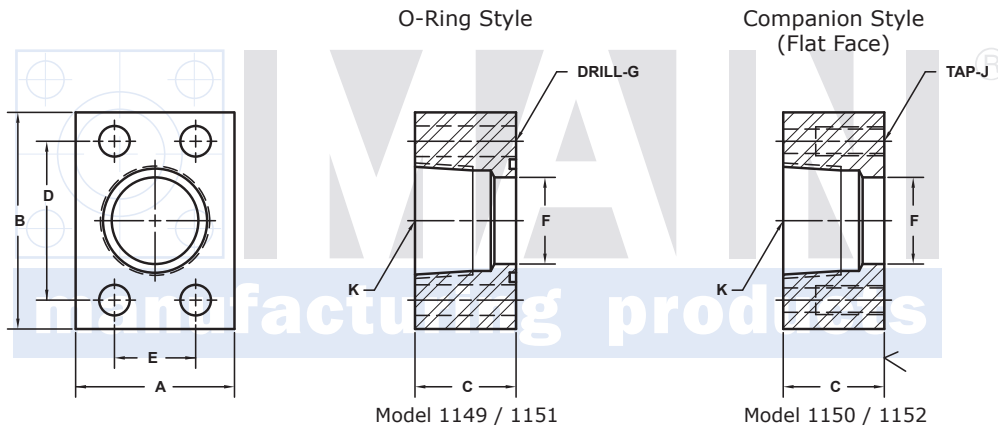
① Order Separately

⑤ May Contain Lead

NPTF THREADED IN-LINE FLANGES (Pg 2/2)

SAE J518 61 SERIES / ISO6162-1 PATTERN														
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm	K NPTF	MOUNTING KIT ^①			WT
									Jmm		PART NO.	SCREW SIZE	O-RING	
2	1 1/4	1149-32-20M12+	3.25	4.00	1.75	3.062	1.688	1.50	13.0	1 1/4	MKM 2566	M12 x 60	228	5.2
		1150-32-20M12+							M12x1.75		-----	-----	---	
2	1 1/2	1149-32-24M12+	3.25	4.00	1.75	3.062	1.688	1.74	13.0	1 1/2	MKM 2566	M12 x 60	228	4.9
		1150-32-24M12+							M12x1.75		-----	-----	---	
2	2	1149-32-32M12+	3.25	4.00	1.75	3.062	1.688	1.94	13.0	2	MKM 2566	M12 x 60	228	4.2
		1150-32-32M12+							M12x1.75		-----	-----	---	
2 1/2 ^②	1 1/2	1149-40-24M12+	4.00	4.50	2.00	3.500	2.000	1.74	13.0	1 1/2	MKM 2574	M12 x 70	232	8.5
		1150-40-24M12+							M12x1.75		-----	-----	---	
2 1/2 ^②	2	1149-40-32M12+	4.00	4.50	2.00	3.500	2.000	2.12	13.0	2	MKM 2574	M12 x 70	232	7.5
		1150-40-32M12+							M12x1.75		-----	-----	---	
2 1/2 ^②	2 1/2	1149-40-40M12+	4.00	4.50	2.00	3.500	2.000	2.44	13.0	2 1/2	MKM 2574	M12 x 70	232	6.5
		1150-40-40M12+							M12x1.75		-----	-----	---	
3 ^③	2	1149-48-32M16	4.50	5.50	2.25	4.188	2.438	2.12	17.0	2	MKM 1516	M16 x 80	237	12.5
		1150-48-32M16							M16x2		-----	-----	---	
3 ^③	2 1/2	1149-48-40M16	4.50	5.50	2.25	4.188	2.438	2.62	17.0	2 1/2	MKM 1516	M16 x 80	237	11.4
		1150-48-40M16							M16x2		-----	-----	---	
3 ^③	3	1149-48-48M16	4.50	5.50	2.25	4.188	2.438	2.94	17.0	3	MKM 1516	M16 x 80	237	9.8
		1150-48-48M16							M16x2		-----	-----	---	
3 1/2 ^④	3 1/2	1149-56-56M16	5.00	6.00	2.25	4.750	2.750	3.44	17.0	3 1/2	MKM 2576	M16 x 90	241	11.0
		1150-56-56M16							M16x2		-----	-----	---	
4 ^④	4	1149-64-64M16	5.50	6.50	2.50	5.125	3.062	3.94	17.0	4	MKM 2545	M16 x 90	245	14.5
		1150-64-64M16							M16x2		-----	-----	---	

MATERIAL:
Low Carbon Steel^⑤



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SAE J518 62 SERIES / ISO6162-2 PATTERN														
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm	K NPTF	MOUNTING KIT ^①			WT
									Jmm		PART NO.	SCREW SIZE	O-RING	
1 1/2	1 1/4	1151-24-20M16	3.25	4.50	1.75	3.125	1.437	1.50	17.0	1 1/4	MKM 527	M16 x 65	225	5.7
		1152-24-20M16							M16x2		-----	-----	---	
1 1/2	1 1/2	1151-24-24M16	3.25	4.50	1.75	3.125	1.437	1.50	17.0	1 1/2	MKM 527	M16 x 65	225	5.6
		1152-24-24M16							M16x2		-----	-----	---	
1 1/2	2	-----	4.00	4.50	4.00	3.125	1.437	1.50	---	2	-----	-----	---	17.0
		1152-24-32M16							M16x2		-----	-----	---	
2	1 1/2	1151-32-24M20	4.00	5.25	1.75	3.812	1.750	1.74	21.0	1 1/2	MKM 516	M20 x 70	228	8.4
		1152-32-24M20							M20x2.5		-----	-----	---	
2	2	1151-32-32M20	4.00	5.25	1.75	3.812	1.750	1.94	21.0	2	MKM 516	M20 x 70	228	7.8
		1152-32-32M20							M20x2.5		-----	-----	---	
2 1/2	2	1151-40-32M24	5.00	6.88	2.00	4.875	2.312	2.12	25.5	2	MKM 517	M24 x 80	232	15.4
		1152-40-32M24							M24x3		-----	-----	---	
2 1/2	2 1/2	1151-40-40M24	5.00	6.88	2.00	4.875	2.312	2.44	25.5	2 1/2	MKM 517	M24 x 80	232	15.1
		1152-40-40M24							M24x3		-----	-----	---	
3	3	1151-48-48M30	6.00	8.50	2.50	6.000	2.812	2.94	32.0	3	MKM 518	M30 x 110	237	27.5
		1152-48-48M30							M30x3.5		-----	-----	---	

① Order Separately

② 2500 PSI Max

③ 2000 PSI Max

④ 500 PSI Max

⑤ May Contain Lead

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. + Also Available for M12 Bolts + Also Available for M14 Bolts

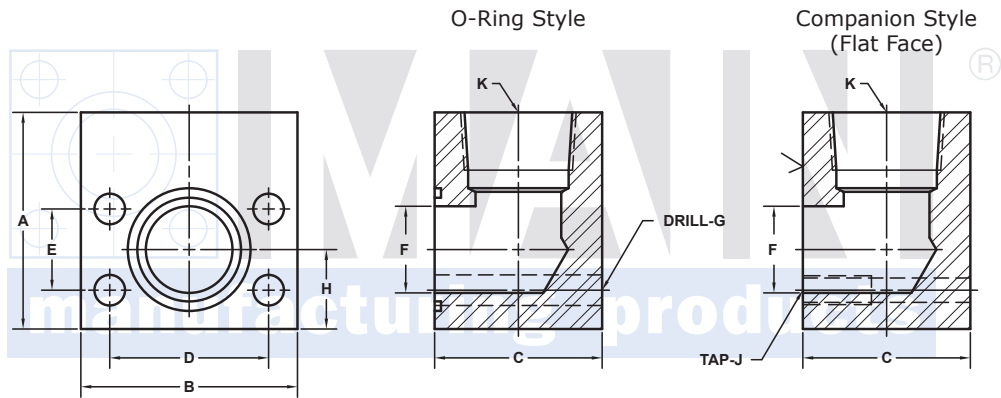
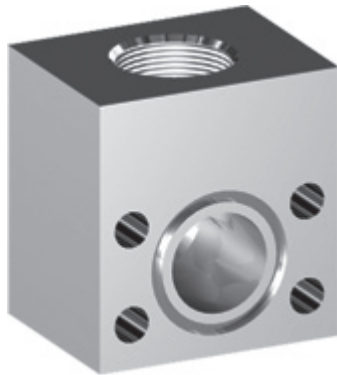
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NPTF THREADED ELBOW FLANGES (Pg 1/2)

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K NPTF	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1161-08-08M8	2.00	2.12	1.44	1.500	.688	.50	8.5	.75	1/2	MKM 541	M8 x 50	210	1.5
		1162-08-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1161-12-08M10	2.50	2.62	1.70	1.875	.875	.75	10.5	.88	1/2	MKM 542	M10 x 60	214	2.7
		1162-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1161-12-12M10	2.50	2.62	1.70	1.875	.875	.75	10.5	.88	3/4	MKM 542	M10 x 60	214	2.6
		1162-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1161-16-12M10	3.00	2.82	1.94	2.062	1.031	1.00	10.5	1.00	3/4	MKM 543	M10 x 65	219	3.9
		1162-16-12M10							M10x1.5			-----	-----	---	
1	1	1161-16-16M10	3.00	2.82	1.94	2.062	1.031	1.00	10.5	1.00	1	MKM 543	M10 x 65	219	3.5
		1162-16-16M10							M10x1.5			-----	-----	---	
1 1/4	1	1161-20-16M10†	3.50	3.19	2.40	2.312	1.188	1.25	10.5	1.25	1	MKM 4532	M10 x 75	222	6.5
		1162-20-16M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/4	1161-20-20M10†	3.50	3.19	2.40	2.312	1.188	1.25	10.5	1.25	1 1/4	MKM 4532	M10 x 75	222	6.2
		1162-20-20M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/2	1161-20-24M10†	4.00	3.19	3.00	2.312	1.188	1.25	10.5	1.25	1 1/2	MKM 4597	M10 x 90	222	6.0
		1162-20-24M10†							M10x1.5			-----	-----	---	
1 1/2	1 1/4	1161-24-20M10†	4.00	3.75	2.90	2.750	1.406	1.50	13.0	1.38	1 1/4	MKM 4533	M12 x 90	225	10.0
		1162-24-20M12‡							M12x1.75			-----	-----	---	
1 1/2	1 1/2	1161-24-24M12‡	4.00	3.75	2.90	2.750	1.406	1.50	13.0	1.38	1 1/2	MKM 4533	M12 x 90	225	9.9
		1162-24-24M12‡							M12x1.75			-----	-----	---	
1 1/2	2	1161-24-32M12‡	4.00	3.75	2.90	2.750	1.406	1.50	13.0	1.38	2	MKM 4533	M12 x 90	225	8.9
		1162-24-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:
Low Carbon Steel^⑤



Model 1161 / 1163

Model 1162 / 1164

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K NPTF	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1163-08-08M8	2.00	2.22	1.46	1.594	.718	.50	8.5	.88	1/2	MKM 541	M8 x 50	210	1.6
		1164-08-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1163-12-08M10	2.50	2.81	1.70	2.000	.937	.75	10.5	1.00	1/2	MKM 542	M10 x 60	214	2.9
		1164-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1163-12-12M10	2.50	2.81	1.70	2.000	.937	.75	10.5	1.00	3/4	MKM 542	M10 x 60	214	2.8
		1164-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1163-16-12M12	3.00	3.19	1.96	2.250	1.093	1.00	12.5	1.12	3/4	MKM 551	M12 x 70	219	4.6
		1164-16-12M12							M12x1.75			-----	-----	---	
1	1	1163-16-16M12	3.00	3.19	1.96	2.250	1.093	1.00	12.5	1.12	1	MKM 551	M12 x 70	219	4.4
		1164-16-16M12							M12x1.75			-----	-----	---	
1 1/4	1	1163-20-16M12‡	4.00	3.75	2.44	2.625	1.250	1.25	13.0	1.38	1	MKM 578	M12 x 80	222	6.9
		1164-20-16M12‡							M12x1.75			-----	-----	---	
1 1/4	1 1/4	1163-20-20M12‡	4.00	3.75	2.44	2.625	1.250	1.25	13.0	1.38	1 1/4	MKM 578	M12 x 80	222	6.7
		1164-20-20M12‡							M12x1.75			-----	-----	---	
1 1/4	1 1/2	1163-20-24M12‡	4.00	3.75	3.00	2.625	1.250	1.25	13.0	1.38	1 1/2	MKM 5551	M12 x 90	222	9.9
		1164-20-24M12‡							M12x1.75			-----	-----	---	

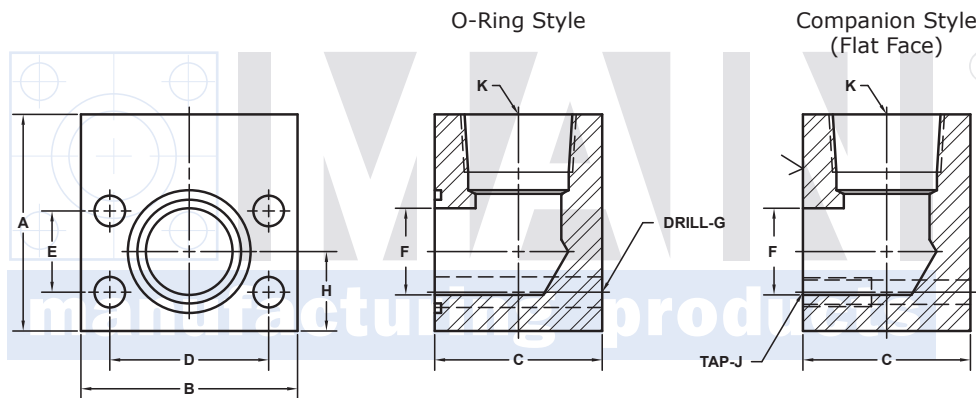
① Order Separately

⑤ May Contain Lead

NPTF THREADED ELBOW FLANGES (Pg 2/2)

SAE J518 61 SERIES / ISO6162-1 PATTERN															
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm	H	K NPTF	MOUNTING KIT ^①			WT
									Jmm			PART NO.	SCREW SIZE	O-RING	
2	1¼	1161-32-20M12+	4.50	4.00	2.96	3.062	1.688	1.94	13.0	1.62	1 1/4	MKM 4547	M12 x 90	228	11.3
		1162-32-20M12+							M12x1.75			-----	-----	---	
2	1½	1161-32-24M12+	4.50	4.00	2.96	3.062	1.688	1.94	13.0	1.62	1 1/2	MKM 4547	M12 x 90	228	10.9
		1162-32-24M12+							M12x1.75			-----	-----	---	
2	2	1161-32-32M12+	4.50	4.00	2.96	3.062	1.688	1.94	13.0	1.62	2	MKM 4547	M12 x 90	228	10.7
		1162-32-32M12+							M12x1.75			-----	-----	---	
2½ ^②	1½	1161-40-24M12+	5.00	4.50	3.96	3.500	2.000	2.44	13.0	2.00	1 1/2	MKM 4535	M12 x 120	232	18.5
		1162-40-24M12+							M12x1.75			-----	-----	---	
2½ ^②	2	1161-40-32M12+	5.00	4.50	3.96	3.500	2.000	2.44	13.0	2.00	2	MKM 4535	M12 x 120	232	17.8
		1162-40-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2½	1161-40-40M12+	5.00	4.50	3.96	3.500	2.000	2.44	13.0	2.00	2 1/2	MKM 4535	M12 x 120	232	17.5
		1162-40-40M12+							M12x1.75			-----	-----	---	
3 ^③	2	1161-48-32M16	6.00	5.31	4.46	4.188	2.438	2.94	17.0	2.25	2	MKM 2532	M16 x 140	237	29.6
		1162-48-32M16							M16x2			-----	-----	---	
3 ^③	2½	1161-48-40M16	6.00	5.31	4.46	4.188	2.438	2.94	17.0	2.25	2 1/2	MKM 2532	M16 x 140	237	30.0
		1162-48-40M16							M16x2			-----	-----	---	
3 ^③	3	1161-48-48M16	6.00	5.31	4.46	4.188	2.438	2.94	17.0	2.25	3	MKM 2532	M16 x 140	237	27.6
		1162-48-48M16							M16x2			-----	-----	---	
3½ ^④	3	1161-56-48M16	6.00	6.00	5.00	4.750	2.750	3.44	17.0	2.50	3	MKM	M16 x	241	36.8
		1162-56-48M16							M16x2			-----	-----	---	
3½ ^④	3½	1161-56-56M16	6.25	6.00	5.40	4.750	2.750	3.44	17.0	2.50	3 1/2	MKM	M16 x	241	40.0
		1162-56-56M16							M16x2			-----	-----	---	

MATERIAL:
Low Carbon Steel^⑤



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN															
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K NPTF	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1½	1¼	1163-24-20M16	4.00	4.50	2.96	3.125	1.437	1.50	17.0	1.62	1 1/4	MKM 553	M16 x 100	225	12.5
		1164-24-20M16							M16x2			-----	-----	---	
1½	1½	1163-24-24M16	4.00	4.50	2.96	3.125	1.437	1.50	17.0	1.62	1 1/2	MKM 553	M16 x 100	225	11.9
		1164-24-24M16							M16x2			-----	-----	---	
1½	2	1163-24-32M16	4.50	4.50	3.50	3.125	1.437	1.50	17.0	1.62	2	MKM 1598	M16 x 120	225	15.3
		1164-24-32M16							M16x2			-----	-----	---	
2	1½	1163-32-24M20	5.00	5.25	3.46	3.812	1.750	1.94	21.0	2.00	1 1/2	MKM 554	M20 x 120	228	20.7
		1164-32-24M20							M20x2.5			-----	-----	---	
2	2	1163-32-32M20	5.00	5.25	3.46	3.812	1.750	1.94	21.0	2.00	2	MKM 554	M20 x 120	228	20.2
		1164-32-32M20							M20x2.5			-----	-----	---	
2½	2	1163-40-32M24	6.00	6.88	4.00	4.875	2.312	2.44	25.5	2.50	2	MKM 555	M24 x 140	232	39.0
		1164-40-32M24							M24x3			-----	-----	---	
2½	2½	1163-40-40M24	6.00	6.88	4.00	4.875	2.312	2.44	25.5	2.50	2 1/2	MKM 555	M24 x 140	232	37.9
		1164-40-40M24							M24x3			-----	-----	---	
3	3	1163-48-48M30	7.00	8.50	5.00	6.000	2.812	2.94	32.0	3.00	3	MKM 556	M30 x 180	237	63.7
		1164-48-48M30							M30x3.5			-----	-----	---	

① Order Separately

② 2500 PSI Max

③ 2000 PSI Max

④ 500 PSI Max

⑤ May Contain Lead

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. + Also Available for M12 Bolts + Also Available for M14 Bolts

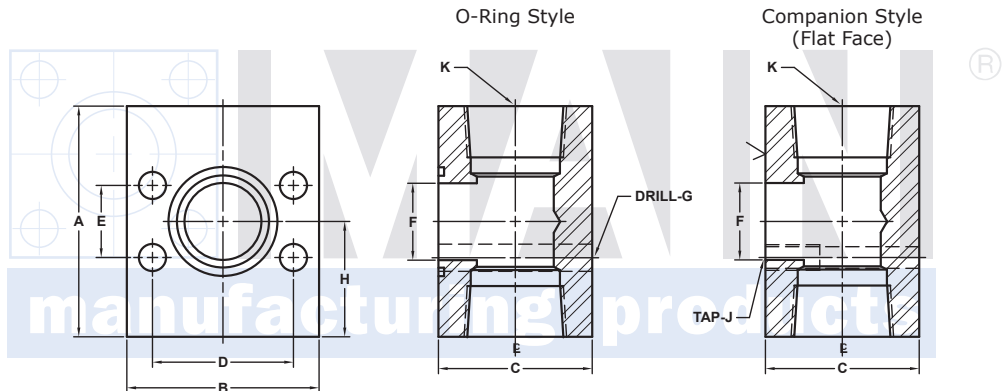
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NPTF THREADED BRANCH TEE FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K NPTF	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1153-08-08M8	2.50	2.12	1.44	1.500	.688	.50	8.5	1.25	1/2	MKM 541	M8 x 50	210	1.8
		1154-08-08M8							M8x1.25			-----	-----	---	
3/4	3/4	1153-12-12M10	3.00	2.62	1.70	1.875	.875	.75	10.5	1.50	3/4	MKM 542	M10 x 60	214	3.0
		1154-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1153-16-12M10	4.00	2.82	1.94	2.062	1.031	1.00	10.5	2.00	3/4	MKM 543	M10 x 65	219	5.1
		1154-16-12M10							M10x1.5			-----	-----	---	
1	1	1153-16-16M10	4.00	2.82	1.94	2.062	1.031	1.00	10.5	2.00	1	MKM 543	M10 x 65	219	4.8
		1154-16-16M10							M10x1.5			-----	-----	---	
1 1/4	3/4	1153-20-12M10†	4.50	3.19	2.40	2.312	1.188	1.25	10.5	2.25	3/4	MKM 4532	M10 x 75	222	8.0
		1154-20-12M10†							M10x1.5			-----	-----	---	
1 1/4	1	1153-20-16M10†	4.50	3.19	2.40	2.312	1.188	1.25	10.5	2.25	1	MKM 4532	M10 x 75	222	7.7
		1154-20-16M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/4	1153-20-20M10†	4.50	3.19	2.40	2.312	1.188	1.25	10.5	2.25	1 1/4	MKM 4532	M10 x 75	222	7.3
		1154-20-20M10†							M10x1.5			-----	-----	---	
1 1/2	1 1/4	1153-24-20M12‡	4.50	3.75	2.90	2.750	1.406	1.50	13.0	2.25	1 1/4	MKM 4533	M12 x 90	225	12.1
		1154-24-20M12‡							M12x1.75			-----	-----	---	
1 1/2	1 1/2	1153-24-24M12‡	4.50	3.75	2.90	2.750	1.406	1.50	13.0	2.25	1 1/2	MKM 4533	M12 x 90	225	10.2
		1154-24-24M12‡							M12x1.75			-----	-----	---	
2	1 1/2	1153-32-24M12‡	5.25	4.00	2.96	3.062	1.688	1.94	13.0	2.62	1 1/2	MKM 4547	M12 x 90	228	13.0
		1154-32-24M12‡							M12x1.75			-----	-----	---	
2	2	1153-32-32M12‡	5.25	4.00	2.96	3.062	1.688	1.94	13.0	2.62	2	MKM 4547	M12 x 90	228	11.5
		1154-32-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:
Low Carbon Steel^⑤



Model 1153 / 1155

Model 1154 / 1156

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K NPTF	MOUNTING KIT①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1155-08-08M8	2.50	2.22	1.46	1.594	.718	.50	8.5	1.25	1/2	MKM 541	M8 x 50	210	2.0
		1156-08-08M8							M8x1.25			-----	-----	---	
3/4	3/4	1155-12-12M10	3.00	2.81	1.70	2.000	.937	.75	10.5	1.50	3/4	MKM 542	M10 x 60	214	3.3
		1156-12-12M10							M10x1.5			-----	-----	---	
1	1	1155-16-16M12	4.00	3.19	1.96	2.250	1.093	1.00	12.5	2.00	1	MKM 551	M12 x 70	219	5.7
		1156-16-16M12							M12x1.75			-----	-----	---	
1 1/4	1 1/4	1155-20-20M12‡	4.50	3.75	2.44	2.625	1.250	1.25	13.0	2.25	1 1/4	MKM 578	M12 x 80	222	9.0
		1156-20-20M12‡							M12x1.75			-----	-----	---	
1 1/2	1 1/2	1155-24-24M16	4.50	4.50	2.96	3.125	1.437	1.50	17.0	2.25	1 1/2	MKM 553	M16 x 100	225	13.0
		1156-24-24M16							M16x2			-----	-----	---	
1 1/2	2	1155-24-32M16	5.00	4.50	3.50	3.125	1.437	1.50	17.0	2.50	2	MKM	M16 x	225	15.8
		1156-24-32M16							M16x2			-----	-----	---	
2	1 1/2	1155-32-24M20	6.00	5.25	3.46	3.812	1.750	1.94	21.0	3.00	1 1/2	MKM 554	M20 x 120	228	24.3
		1156-32-24M20							M20x2.5			-----	-----	---	
2	2	1155-32-32M20	6.00	5.25	3.46	3.812	1.750	1.94	21.0	3.00	2	MKM 554	M20 x 120	228	22.8
		1156-32-32M20							M20x2.5			-----	-----	---	

① Order Separately

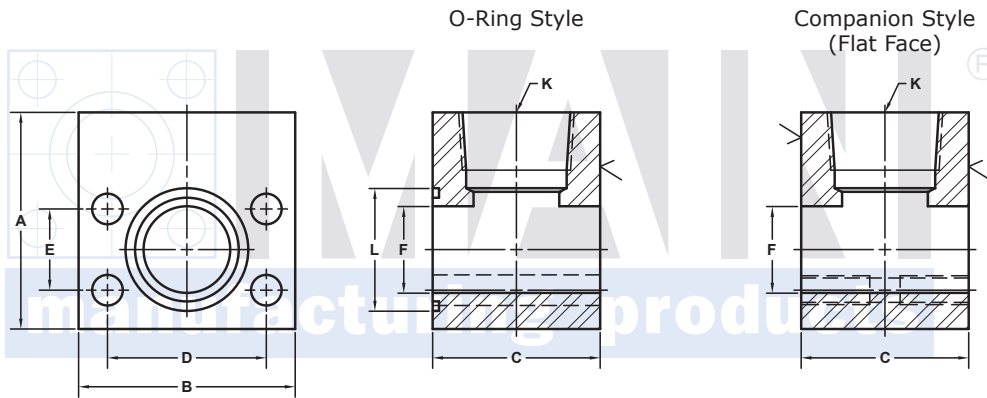
⑤ May Contain Lead

NPTF THREADED RUN TEE FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

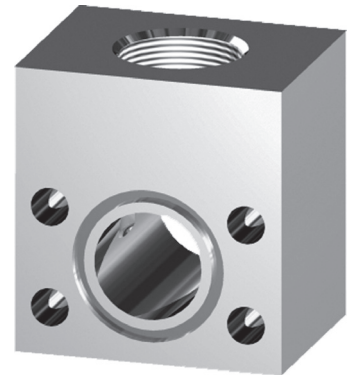
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	K	L	O-RING ^①	WT
1/2	1/2	1197-08-08M8	2.00	2.12	1.44	1.500	.688	.50	1/2	1.000	210	1.3
		1198-08-08M8								---	---	
1/2	3/4	1197-08-12M8	2.75	2.12	1.75	1.500	.688	.50	3/4	1.000	210	2.4
		1198-08-12M8								---	---	
3/4	1/2	1197-12-08M10	2.50	2.62	1.70	1.875	.875	.75	1/2	1.250	214	2.6
		1198-12-08M10								---	---	
3/4	3/4	1197-12-12M10	2.50	2.62	1.70	1.875	.875	.75	3/4	1.250	214	2.5
		1198-12-12M10								---	---	
1	3/4	1197-16-12M10	3.00	2.82	1.94	2.062	1.031	1.00	3/4	1.562	219	3.7
		1198-16-12M10								---	---	
1	1	1197-16-16M10	3.00	2.82	1.94	2.062	1.031	1.00	1	1.562	219	3.5
		1198-16-16M10								---	---	
1 1/4	1 1/4	1197-20-20M10†	3.50	3.19	2.40	2.312	1.188	1.25	1 1/4	1.750	222	5.3
		1198-20-20M10†								---	---	
1 1/2	1 1/2	1197-24-24M12‡	4.00	3.75	2.90	2.750	1.406	1.50	1 1/2	2.125	225	9.5
		1198-24-24M12‡								---	---	
2	2	1197-32-32M12‡	4.50	4.00	2.96	3.062	1.688	1.94	2	2.500	228	10.0
		1198-32-32M12‡								---	---	
2 1/2 ^②	2 1/2	1197-40-40M12‡	5.00	4.50	3.96	3.500	2.000	2.44	2 1/2	3.000	232	18.0
		1198-40-40M12‡								---	---	
3 ^③	3	1197-48-48M16	6.00	5.31	4.46	4.188	2.438	2.94	3	3.625	237	27.0
		1198-48-48M16								---	---	

MATERIAL:
Low Carbon Steel^⑤



Model 1197 / 1199

Model 1198 / 1200



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	K	L	O-RING ^①	WT
1/2	1/2	1199-08-08M8	2.00	2.22	1.46	1.594	.718	.50	1/2	1.000	210	1.5
		1200-08-08M8								---	---	
3/4	3/4	1199-12-12M10	2.50	2.81	1.70	2.000	.937	.75	3/4	1.250	214	2.7
		1200-12-12M10								---	---	
1	1	1199-16-16M12	3.00	3.19	1.96	2.250	1.093	1.00	1	1.562	219	4.2
		1200-16-16M12								---	---	
1 1/4	1 1/4	1199-20-20M12‡	4.00	3.75	2.44	2.625	1.250	1.25	1 1/4	1.750	222	6.5
		1200-20-20M12‡								---	---	
1 1/2	1 1/2	1199-24-24M16	4.00	4.50	2.96	3.125	1.437	1.50	1 1/2	2.125	225	11.7
		1200-24-24M16								---	---	
2	2	1199-32-32M20	5.00	5.25	3.46	3.812	1.750	1.94	2	2.500	228	20.0
		1200-32-32M20								---	---	
2 1/2	2 1/2	1199-40-40M24	6.00	6.88	4.00	4.875	2.312	2.44	2 1/2	3.000	232	34.6
		1200-40-40M24								---	---	
3	3	1199-48-48M30	7.00	8.50	5.00	6.000	2.812	2.94	3	3.625	237	62.1
		1200-48-48M30								---	---	

① Includes Buna-N O-Ring ② 2500 PSI Max ③ 2000 PSI Max

⑤ May Contain Lead

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

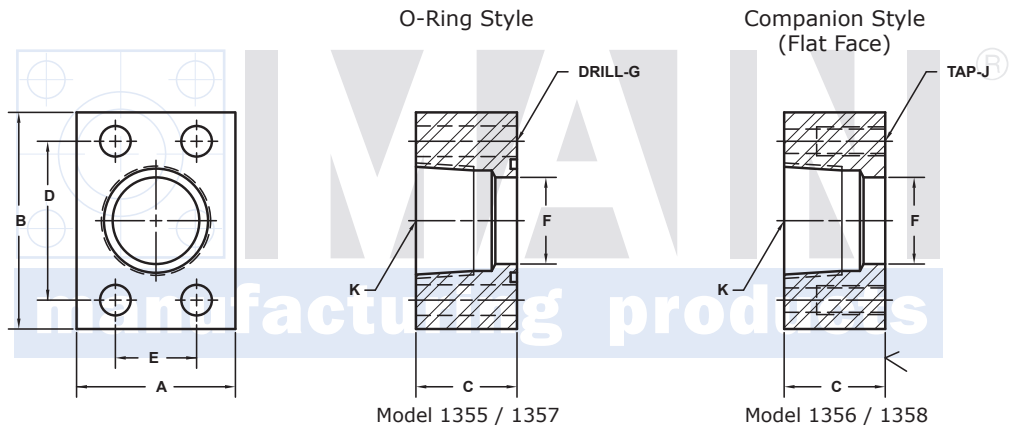
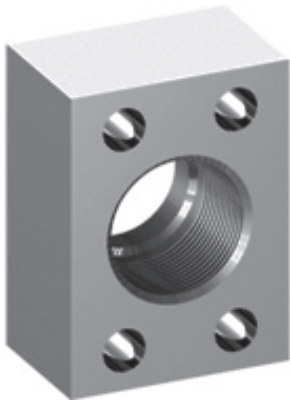
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BSPT THREADED IN-LINE FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	K BSPT	MOUNTING KIT ^①			WT
									PART NO.		SCREW SIZE	O-RING		
1/2	1/2	1355-08-08M8	1.50	2.12	1.25	1.500	.688	.50	8.5	1/2	MKM 519	M8 x 45	210	.8
		1356-08-08M8							M8x1.25		-----	-----	---	
3/4	3/4	1355-12-12M10	1.75	2.62	1.25	1.875	.875	.75	10.5	3/4	MKM 520	M10 x 45	214	1.2
		1356-12-12M10							M10x1.5		-----	-----	---	
1	1	1355-12-16M10	2.00	2.82	1.50	2.062	1.031	1.00	10.5	1	MKM 521	M10 x 50	219	1.7
		1356-12-16M10							M10x1.5		-----	-----	---	
1 1/4	1 1/4	1355-20-20M10†	2.50	3.19	1.50	2.312	1.188	1.25	10.5	1 1/4	MKM 3526	M10 x 50	222	2.3
		1356-20-20M10†							M10x1.5		-----	-----	---	
1 1/2	1 1/2	1355-24-24M12‡	2.75	3.75	1.75	2.750	1.406	1.50	13.0	1 1/2	MKM 2565	M12 x 60	225	3.6
		1356-24-24M12‡							M12x1.75		-----	-----	---	
2	1 1/2	1355-32-24M12‡	3.25	4.00	1.75	3.062	1.688	1.74	13.0	1 1/2	MKM 2566	M12 x 60	228	4.9
		1356-32-24M12‡							M12x1.75		-----	-----	---	
2	2	1355-32-32M12‡	3.25	4.00	1.75	3.062	1.688	1.94	13.0	2	MKM 2566	M12 x 60	228	4.2
		1356-32-32M12‡							M12x1.75		-----	-----	---	
2 1/2 ^②	2 1/2	1355-40-40M12‡	4.00	4.50	2.00	3.500	2.00	2.44	13.0	2 1/2	MKM 2574	M12 x 70	232	6.5
		1356-40-40M12‡							M12x1.75		-----	-----	---	
3 ^③	3	1355-48-48M16	4.50	5.50	2.25	4.188	2.438	2.94	17.0	3	MKM 1516	M16 x 80	237	9.8
		1356-48-48M16							M16x2		-----	-----	---	
3 1/2 ^④	3 1/2	1355-56-56M16	5.00	6.00	2.25	4.750	2.750	3.44	17.0	3 1/2	MKM 2576	M16 x 90	241	11.0
		1356-56-56M16							M16x2		-----	-----	---	
4 ^④	4	1355-64-64M16	5.50	6.50	2.50	5.125	3.062	3.94	17.0	4	MKM 2545	M16 x 90	245	14.5
		1356-64-64M16							M16x2		-----	-----	---	

MATERIAL:
Low Carbon Steel^⑤



Model 1355 / 1357

Model 1356 / 1358

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm		K BSPT	MOUNTING KIT①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1357-08-08M8	1.75	2.22	1.25	1.594	.718	.50	8.5		1/2	MKM 519	M8 x 45	210	1.1
		1358-08-08M8							M8x1.25			-----	-----	---	
3/4	3/4	1357-12-12M10	2.00	2.81	1.25	2.000	.937	.75	10.5		3/4	MKM 520	M10 x 45	214	1.5
		1358-12-12M10							M10x1.5			-----	-----	---	
1	1	1357-16-16M10	2.25	3.19	1.50	2.250	1.093	1.00	12.5		1	MKM 525	M12 x 55	219	2.3
		1358-16-16M10							M12x1.75			-----	-----	---	
1 1/4	1 1/4	1357-20-20M12+	3.00	3.75	1.50	2.625	1.250	1.25	13.0		1 1/4	MKM 522	M12 x 55	222	3.7
		1358-20-20M12+							M12x1.75			-----	-----	---	
1 1/2	1 1/2	1357-24-24M16	3.25	4.50	1.75	3.125	1.437	1.50	17.0		1 1/2	MKM 527	M16 x 65	225	5.6
		1358-24-24M16							M16x2			-----	-----	---	
2	2	1357-32-32M20	4.00	5.25	1.75	3.812	1.750	1.94	21.0		2	MKM 516	M20x 70	228	7.8
		1358-32-32M20							M20x2.5			-----	-----	---	
2 1/2	2 1/2	1357-40-40M24	5.00	6.88	2.00	4.875	2.312	2.44	25.5		2 1/2	MKM 517	M24x 80	232	15.1
		1358-40-40M24							M24x3			-----	-----	---	
3	3	1357-48-48M30	6.00	8.50	2.50	6.000	2.812	2.94	32.0		3	MKM 518	M30 x 110	237	27.5
		1358-48-48M30							M30x3.5			-----	-----	---	

① Order Separately

② 2500 PSI Max

③ 2000 PSI Max

④ 500 PSI Max

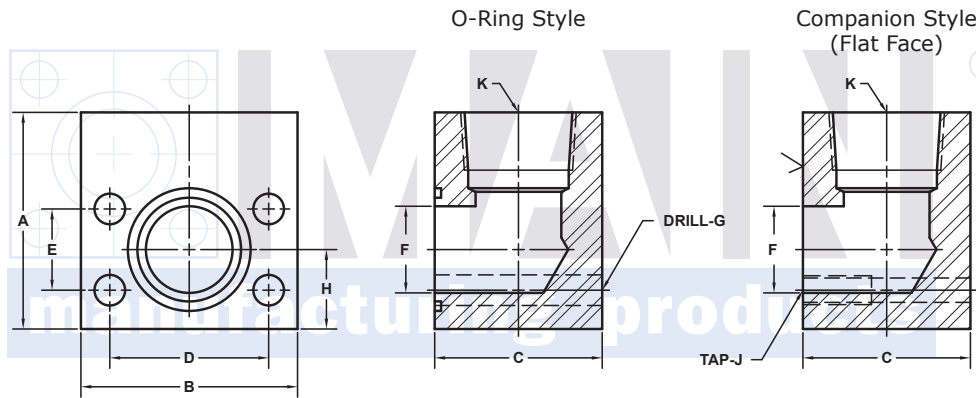
⑤ May Contain Lead

BSPT THREADED ELBOW FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K NPTF	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1363-08-08M8	2.00	2.12	1.44	1.500	.688	.50	8.5	.75	1/2	MKM 541	M8 x 50	210	1.5
		1364-08-08M8							M8x1.25			-----	-----	---	
3/4	3/4	1363-12-12M10	2.50	2.62	1.70	1.875	.875	.75	10.5	.88	3/4	MKM 542	M10 x 60	214	2.6
		1364-12-12M10							M10x1.5			-----	-----	---	
1	1	1363-16-16M10	3.00	2.82	1.94	2.062	1.031	1.00	10.5	1.00	1	MKM 543	M10 x 65	219	3.5
		1364-16-16M10							M10x1.5			-----	-----	---	
1 1/4	1	1363-20-16M10+	3.50	3.19	2.40	2.312	1.188	1.25	10.5	1.25	1	MKM 4532	M10 x 75	222	6.5
		1364-20-16M10+							M10x1.5			-----	-----	---	
1 1/4	1 1/4	1363-20-20M10+	3.50	3.19	2.40	2.312	1.188	1.25	10.5	1.25	1 1/4	MKM 4532	M10 x 75	222	6.0
		1364-20-20M10+							M10x1.5			-----	-----	---	
1 1/2	1 1/4	1363-24-20M12+	4.00	3.75	2.90	2.750	1.406	1.50	13.0	1.38	1 1/4	MKM 4533	M12 x 90	225	10.0
		1364-24-20M12+							M12x1.75			-----	-----	---	
1 1/2	1 1/2	1363-24-24M12+	4.00	3.75	2.90	2.750	1.406	1.50	13.0	1.38	1 1/2	MKM 4533	M12 x 90	225	9.5
		1364-24-24M12+							M12x1.75			-----	-----	---	
2	1 1/2	1363-32-24M12+	4.50	4.00	2.96	3.062	1.688	1.94	13.0	1.62	1 1/2	MKM 4547	M12 x 90	228	10.5
		1364-32-24M12+							M12x1.75			-----	-----	---	
2	2	1363-32-32M12+	4.50	4.00	2.96	3.062	1.688	1.94	13.0	1.62	2	MKM 4547	M12 x 90	228	10.9
		1364-32-32M12+							M12x1.75			-----	-----	---	
2 1/2 ②	2 1/2	1363-40-40M12+	5.00	4.50	3.96	3.500	2.000	2.44	13.0	2.00	2 1/2	MKM 4535	M12 x 120	232	17.5
		1364-40-40M12+							M12x1.75			-----	-----	---	
3 ③	3	1363-48-48M16	6.00	5.31	4.46	4.188	2.438	2.94	17.0	2.25	3	MKM 2532	M16 x 140	237	26.5
		1364-48-48M16							M16x2			-----	-----	---	

MATERIAL:
Low Carbon Steel^⑤



Model 1363 / 1365

Model 1364 / 1366

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K NPTF	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1365-08-08M8	2.00	2.22	1.46	1.594	.718	.50	8.5	.88	1/2	MKM 541	M8 x 50	210	1.6
		1366-08-08M8							M8x1.25			-----	-----	---	
3/4	3/4	1365-12-12M10	2.50	2.81	1.70	2.000	.937	.75	10.5	1.00	3/4	MKM 542	M10 x 60	214	2.8
		1366-12-12M10							M10x1.5			-----	-----	---	
1	1	1365-16-16M12	3.00	3.19	1.96	2.250	1.093	1.00	12.5	1.12	1	MKM 551	M12 x 70	219	4.4
		1366-16-16M12							M12x1.75			-----	-----	---	
1 1/4	1 1/4	1365-20-20M12+	4.00	3.75	2.44	2.625	1.250	1.25	13.0	1.38	1 1/4	MKM 578	M12 x 80	222	8.2
		1366-20-20M12+							M12x1.75			-----	-----	---	
1 1/2	1 1/2	1365-24-24M16	4.00	4.50	2.96	3.125	1.437	1.50	17.0	1.62	1 1/2	MKM 553	M16 x 100	225	12.0
		1366-24-24M16							M16x2			-----	-----	---	
2	2	1365-32-32M20	5.00	5.25	3.46	3.812	1.750	1.94	21.0	2.00	2	MKM 554	M20 x 120	228	20.0
		1366-32-32M20							M20x2.5			-----	-----	---	
2 1/2	2 1/2	1365-40-40M24	6.00	6.88	4.00	4.875	2.312	2.44	25.5	2.50	2 1/2	MKM 555	M24 x 140	232	37.9
		1366-40-40M24							M24x3			-----	-----	---	
3	3	1365-48-48M30	7.00	8.50	5.00	6.000	2.812	2.94	33.0	3.00	3	MKM 556	M30 x 180	237	64.0
		1366-48-48M30							M30x3.5			-----	-----	---	

① Order Separately

② 2500 PSI Max ③ 2000 PSI Max

⑤ May Contain Lead

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. + Also Available for M12 Bolts + Also Available for M14 Bolts

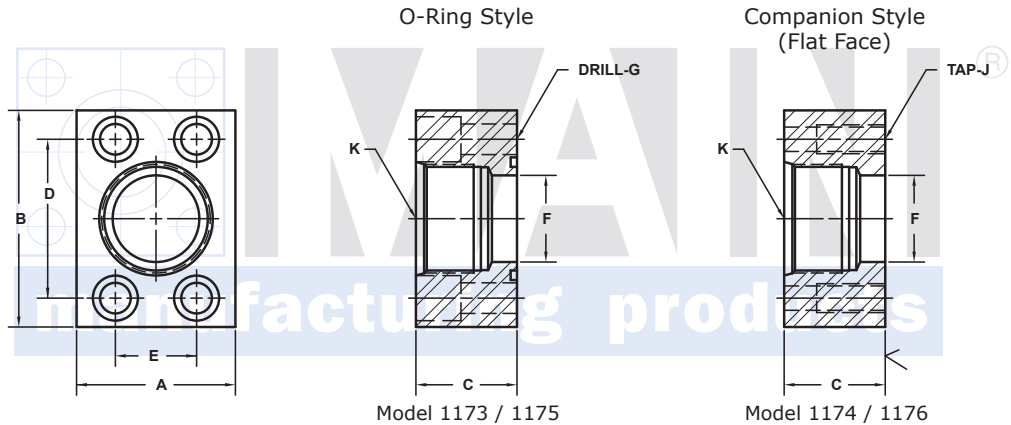
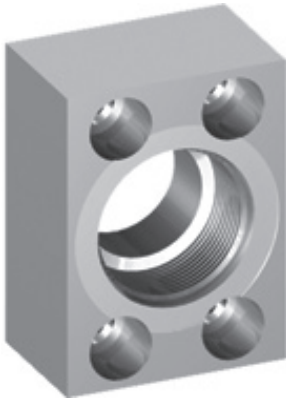
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SAE J1926 THREADED IN-LINE FLANGES (Pg 1/2)

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	ORB	PART NUMBER	A	B	C	D	E	F	Gmm		K	MOUNTING KIT®			WT
									Jmm			PART NO.	SCREW SIZE	O-RING	
1/2	-4	1173-08-04M8	1.50	2.12	1.25	1.500	.688	.37	8.5		7/16-20	MKM 501	M8 x 30	210	1.0
		1174-08-04M8							M8x1.25			-----	-----	---	
1/2	-6	1173-08-06M8	1.50	2.12	1.25	1.500	.688	12.5	8.5		9/16-18	MKM 501	M8 x 30	210	1.0
		1174-08-06M8							M8x1.25			-----	-----	---	
1/2	-8	1173-08-08M8	1.50	2.12	1.25	1.500	.688	.50	8.5		3/4-16	MKM 501	M8 x 30	210	.9
		1174-08-08M8							M8x1.25			-----	-----	---	
3/4	-8	1173-12-08M10	1.75	2.62	1.50	1.875	.875	.66	10.5		3/4-16	MKM 1525	M10 x 35	214	1.6
		1174-12-08M10							M10x1.5			-----	-----	---	
3/4	-10	1173-12-10M10	1.75	2.62	1.50	1.875	.875	.50	10.5		7/8-14	MKM 1525	M10 x 35	214	1.5
		1174-12-10M10							M10x1.5			-----	-----	---	
3/4	-12	1173-12-12M10	1.75	2.62	1.50	1.875	.875	.75	10.5		1 1/16-12	MKM 1525	M10 x 35	214	1.4
		1174-12-12M10							M10x1.5			-----	-----	---	
3/4	-16	-----	2.00	2.62	2.50	1.875	.875	.75	----		1 5/16-12	-----	-----	---	3.0
		1174-12-16M10							M10x1.5			-----	-----	---	
1	-12	1173-16-12M10	2.00	2.82	1.50	2.062	1.031	.94	10.5		1 1/16-12	MKM 1542	M10 x 35	219	1.9
		1174-16-12M10							M10x1.5			-----	-----	---	
1	-14	1173-16-14M10	2.00	2.82	1.50	2.062	1.031	.75	10.5		1 3/16-12	MKM 1542	M10 x 35	219	1.8
		1174-16-14M10							M10x1.5			-----	-----	---	
1	-16	1173-16-16M10	2.00	2.82	1.50	2.062	1.031	1.00	10.5		1 5/16-12	MKM 1542	M10 x 35	219	1.7
		1174-16-16M10							M10x1.5			-----	-----	---	
1	-20	-----	2.50	3.00	3.00	2.062	1.031	1.00	----		1 5/8-12	-----	-----	---	5.2
		1174-16-20M10							M10x1.5			-----	-----	---	

MATERIAL:
Low Carbon Steel^⑤



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	ORB	PART NUMBER	A	B	C	D	E	F	Gmm		K	MOUNTING KIT®			WT
									Jmm			PART NO.	SCREW SIZE	O-RING	
1/2	-6	1175-08-06M8	1.75	2.22	1.25	1.594	.718	12.5	8.5		9/16-18	MKM 501	M8 x 30	210	1.2
		1176-08-06M8							M8x1.25			-----	-----	---	
1/2	-8	1175-08-08M8	1.75	2.22	1.25	1.594	.718	.50	8.5		3/4-16	MKM 501	M8 x 30	210	1.1
		1176-08-08M8							M8x1.25			-----	-----	---	
3/4	-8	1175-12-08M10	2.00	2.81	1.50	2.000	.937	.66	10.5		3/4-16	MKM 1525	M10 x 35	214	2.0
		1176-12-08M10							M10x1.5			-----	-----	---	
3/4	-10	1175-12-10M10	2.00	2.81	1.50	2.000	.937	.50	10.5		7/8-14	MKM 1525	M10 x 35	214	1.9
		1176-12-10M10							M10x1.5			-----	-----	---	
3/4	-12	1175-12-12M10	2.00	2.81	1.50	2.000	.937	.75	10.5		1 1/16-12	MKM 1525	M10 x 35	214	1.8
		1176-12-12M10							M10x1.5			-----	-----	---	
1	-12	1175-16-12M12	2.25	3.19	1.50	2.250	1.093	.94	12.5		1 1/16-12	MKM 1529	M12 x 40	219	2.5
		1176-16-12M12							M12x1.75			-----	-----	---	
1	-14	1175-16-14M12	2.25	3.19	1.50	2.250	1.093	.75	12.5		1 3/16-12	MKM 1529	M12 x 40	219	2.4
		1176-16-14M12							M12x1.75			-----	-----	---	
1	-16	1175-16-16M12	2.25	3.19	1.50	2.250	1.093	1.00	12.5		1 5/16-12	MKM 1529	M12 x 40	219	2.3
		1176-16-16M12							M12x1.75			-----	-----	---	

① Order Separately

⑤ May Contain Lead

NOTE: The Pressure Rating of the Assembly Should NOT Exceed the Lower of the Flange Pad or the Fitting. Check the Fitting Manufacturer for Details.

24 NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

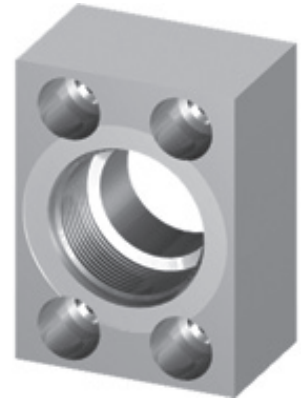
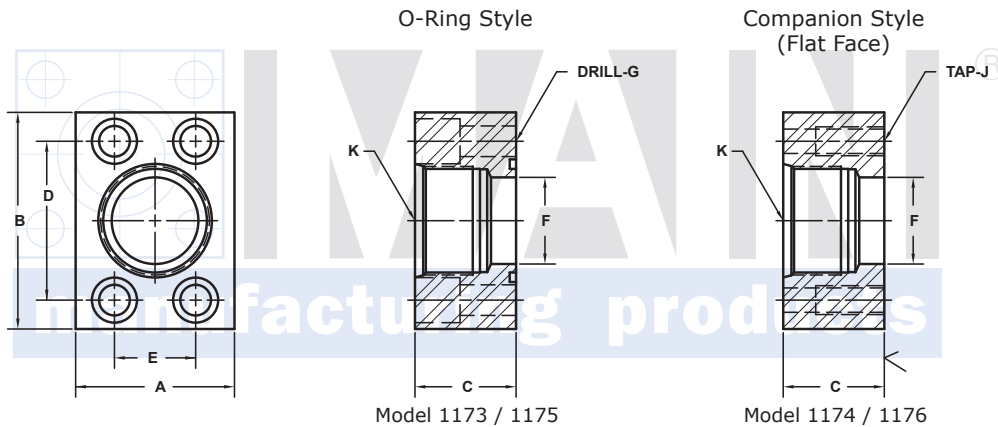
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SAE J1926 THREADED IN-LINE FLANGES (Pg 2/2)

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	ORB	PART NUMBER	A	B	C	D	E	F	Gmm		K	MOUNTING KIT ^①			WT
									Jmm			PART NO.	SCREW SIZE	O-RING	
1¼	-16	1173-20-16M10†	2.50	3.19	1.50	2.312	1.188	1.20	10.5	1 5/16-12	MKM 4520	M10 x 35	222	2.6	
		1174-20-16M10†							M10x1.5		-----	-----	---		
1¼	-20	1173-20-20M10†	2.50	3.19	1.50	2.312	1.188	1.25	10.5	1 5/8-12	MKM 4520	M10 x 35	222	2.3	
		1174-20-20M10†							M10x1.5		-----	-----	---		
1¼	-24	-----	3.00	3.19	3.00	2.312	1.188	1.25	---	1 7/8-12	-----	-----	---	6.4	
		1174-20-24M10†							M10x1.5		-----	-----	---		
1½	-20	1173-24-20M12‡	2.75	3.75	1.75	2.750	1.406	1.50	13.0	1 5/8-12	MKM 2599	M12 x 45	225	3.8	
		1174-24-20M12‡							M12x1.75		-----	-----	---		
1½	-24	1173-24-24M12‡	2.75	3.75	1.75	2.750	1.406	1.50	13.0	1 7/8-12	MKM 2599	M12 x 45	225	3.5	
		1174-24-24M12‡							M12x1.75		-----	-----	---		
1½	-32	-----	3.50	3.75	3.50	2.750	1.406	1.50	---	2 1/2-12	-----	-----	---	9.9	
		1174-24-32M12‡							M12x1.75		-----	-----	---		
2	-20	1173-32-20M12‡	3.25	4.00	1.75	3.062	1.688	1.50	13.0	1 5/8-12	MKM 4513	M12 x 45	228	5.2	
		1174-32-20M12‡							M12x1.75		-----	-----	---		
2	-24	1173-32-24M12‡	3.25	4.00	1.75	3.062	1.688	1.75	13.0	1 7/8-12	MKM 4513	M12 x 45	228	4.8	
		1174-32-24M12‡							M12x1.75		-----	-----	---		
2	-32	-----	3.25	4.00	1.75	3.062	1.688	1.94	---	2 1/2-12	-----	-----	---	3.9	
		1174-32-32M12‡							M12x1.75		-----	-----	---		
2½ ^②	-24	1173-40-24M12‡	4.00	4.50	1.75	3.500	2.000	1.75	13.0	1 7/8-12	MKM 3562	M12 x 45	232	7.4	
		1174-40-24M12‡							M12x1.75		-----	-----	---		
2½ ^②	-32	1173-40-32M12‡	4.00	4.50	1.75	3.500	2.000	2.32	13.0	2 1/2-12	MKM 3562	M12 x 45	232	6.3	
		1174-40-32M12‡							M12x1.75		-----	-----	---		

MATERIAL:
Low Carbon Steel^⑤



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	ORB	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	K	MOUNTING KIT ^①			WT
									PART NO.		SCREW SIZE	O-RING		
1¼	-16	1175-20-16M12‡	3.00	3.75	1.50	2.625	1.250	1.20	13.0	1 5/16-12	MKM 567	M12 x 35	222	4.0
		1176-20-16M12‡							M12x1.75		-----	-----	---	
1¼	-20	1175-20-20M12‡	3.00	3.75	1.50	2.625	1.250	1.25	13.0	1 5/8-12	MKM 567	M12 x 35	222	3.7
		1176-20-20M12‡							M12x1.75		-----	-----	---	
1½	-16	1175-24-16M16	3.25	4.50	1.75	3.125	1.437	1.20	17.0	1 5/16-12	MKM 1544	M16 x 45	225	6.1
		1176-24-16M16							M16x2		-----	-----	---	
1½	-20	1175-24-20M16	3.25	4.50	1.75	3.125	1.437	1.50	17.0	1 5/8-12	MKM 1544	M16 x 45	225	5.8
		1176-24-20M16							M16x2		-----	-----	---	
1½	-24	1175-24-24M16	3.25	4.50	1.75	3.125	1.437	1.50	17.0	1 7/8-12	MKM 1544	M16 x 45	225	5.5
		1176-24-24M16							M16x2		-----	-----	---	
2	-20	1175-32-20M20	4.00	5.25	1.75	3.812	1.750	1.50	21.0	1 5/8-12	MKM 563	M20 x 45	228	8.8
		1176-32-20M20							M20x2.5		-----	-----	---	
2	-24	1175-32-24M20	4.00	5.25	1.75	3.812	1.750	1.75	21.0	1 7/8-12	MKM 563	M20 x 45	228	8.4
		1176-32-24M20							M20x2.5		-----	-----	---	
2	-32	1175-32-32M20	4.00	5.25	1.75	3.812	1.750	1.94	21.0	2 1/2-12	MKM 563	M20 x 45	228	7.5
		1176-32-32M20							M20x2.5		-----	-----	---	

① Order Separately

② 2500 PSI Max

⑤ May Contain Lead

NOTE: The Pressure Rating of the Assembly Should NOT Exceed the Lower of the Flange Pad or the Fitting. Check the Fitting Manufacturer for Details.

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

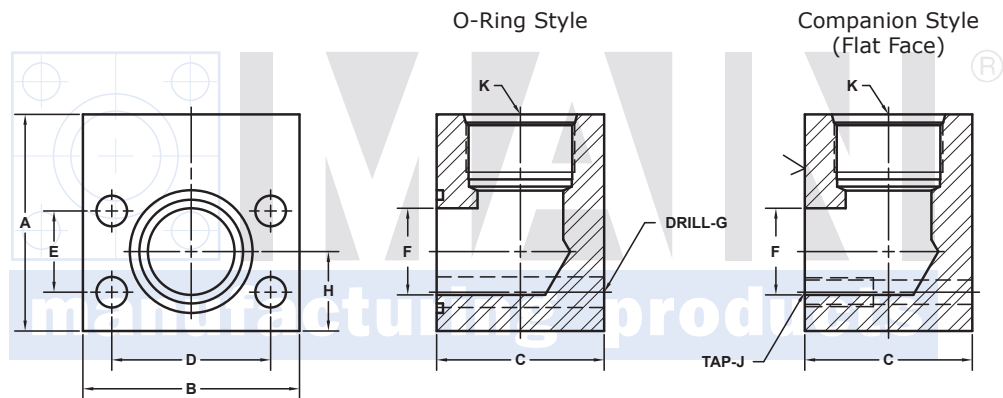
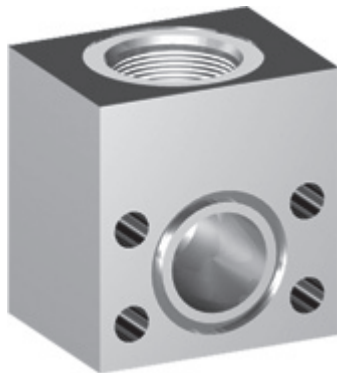
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SAE J1926 THREADED ELBOW FLANGES (Pg 1/2)

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	ORB	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	-4	1177-08-04M8	2.00	2.12	1.44	1.500	.688	.50	8.5	.75	7/16-20	MKM 541	M8 x 50	210	1.6
		1178-08-04M8							M8x1.25			-----	-----	---	
1/2	-6	1177-08-06M8	2.00	2.12	1.44	1.500	.688	.50	8.5	.75	9/16-18	MKM 541	M8 x 50	210	1.5
		1178-08-06M8							M8x1.25			-----	-----	---	
1/2	-8	1177-08-08M8	2.00	2.12	1.44	1.500	.688	.50	8.5	.75	3/4-16	MKM 541	M8 x 50	210	1.5
		1178-08-08M8							M8x1.25			-----	-----	---	
3/4	-8	1177-12-08M10	2.50	2.62	1.70	1.875	.875	.75	10.5	.88	3/4-16	MKM 542	M10 x 60	214	2.8
		1178-12-08M10							M10x1.5			-----	-----	---	
3/4	-10	1177-12-10M10	2.50	2.62	1.70	1.875	.875	.75	10.5	.88	7/8-14	MKM 542	M10 x 60	214	2.7
		1178-12-10M10							M10x1.5			-----	-----	---	
3/4	-12	1177-12-12M10	2.50	2.62	1.70	1.875	.875	.75	10.5	.88	1 1/16-12	MKM 542	M10 x 60	214	2.5
		1178-12-12M10							M10x1.5			-----	-----	---	
3/4	-16	1177-12-16M10	3.00	2.62	2.00	1.875	.875	.75	10.5	.88	1 5/16-12	MKM	M10 x	214	3.4
		1178-12-16M10							M10x1.5			-----	-----	---	
1	-12	1177-16-12M10	3.00	2.82	1.94	2.062	1.031	1.00	10.5	1.00	1 1/16-12	MKM 543	M10 x 65	219	4.0
		1178-16-12M10							M10x1.5			-----	-----	---	
1	-14	1177-16-14M10	3.00	2.82	1.94	2.062	1.031	1.00	10.5	1.00	1 3/16-12	MKM 543	M10 x 65	219	3.9
		1178-16-14M10							M10x1.5			-----	-----	---	
1	-16	1177-16-16M10	3.00	2.82	1.94	2.062	1.031	1.00	10.5	1.00	1 5/16-12	MKM 543	M10 x 65	219	3.7
		1178-16-16M10							M10x1.5			-----	-----	---	
1	-20	1177-16-20M10	3.50	2.82	2.50	2.062	1.031	1.00	10.5	1.00	1 5/8-12	MKM 577	M10 x 80	219	4.4
		1178-16-20M10							M10x1.5			-----	-----	---	

MATERIAL:
Low Carbon Steel^⑤



Model 1177 / 1179

Model 1178 / 1180

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SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	ORB	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	-6	1179-08-06M8	2.00	2.22	1.46	1.594	.718	.50	8.5	.88	9/16-18	MKM 541	M8 x 50	210	1.6
		1180-08-06M8							M8x1.25			-----	-----	---	
1/2	-8	1179-08-08M8	2.00	2.22	1.46	1.594	.718	.50	8.5	.88	3/4-16	MKM 541	M8 x 50	210	1.6
		1180-08-08M8							M8x1.25			-----	-----	---	
3/4	-8	1179-12-08M10	2.50	2.81	1.70	2.000	.937	.75	10.5	1.00	3/4-16	MKM 542	M10 x 60	214	3.1
		1180-12-08M10							M10x1.5			-----	-----	---	
3/4	-10	1179-12-10M10	2.50	2.81	1.70	2.000	.937	.75	10.5	1.00	7/8-14	MKM 542	M10 x 60	214	3.0
		1180-12-10M10							M10x1.5			-----	-----	---	
3/4	-12	1179-12-12M10	2.50	2.81	1.70	2.000	.937	.75	10.5	1.00	1 1/16-12	MKM 542	M10 x 60	214	2.8
		1180-12-12M10							M10x1.5			-----	-----	---	
1	-12	1179-16-12M12	3.00	3.19	1.96	2.250	1.093	1.00	12.5	1.12	1 1/16-12	MKM 551	M12 x 70	219	4.6
		1180-16-12M12							M12x1.75			-----	-----	---	
1	-14	1179-16-14M12	3.00	3.19	1.96	2.250	1.093	1.00	12.5	1.12	1 3/16-12	MKM 551	M12 x 70	219	4.5
		1180-16-14M12							M12x1.75			-----	-----	---	
1	-16	1179-16-16M12	3.00	3.19	1.96	2.250	1.093	1.00	12.5	1.12	1 5/16-12	MKM 551	M12 x 70	219	4.3
		1180-16-16M12							M12x1.75			-----	-----	---	

① Order Separately

⑤ May Contain Lead

NOTE: The Pressure Rating of the Assembly Should NOT Exceed the Lower of the Flange Pad or the Fitting. Check the Fitting Manufacturer for Details.

26 NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

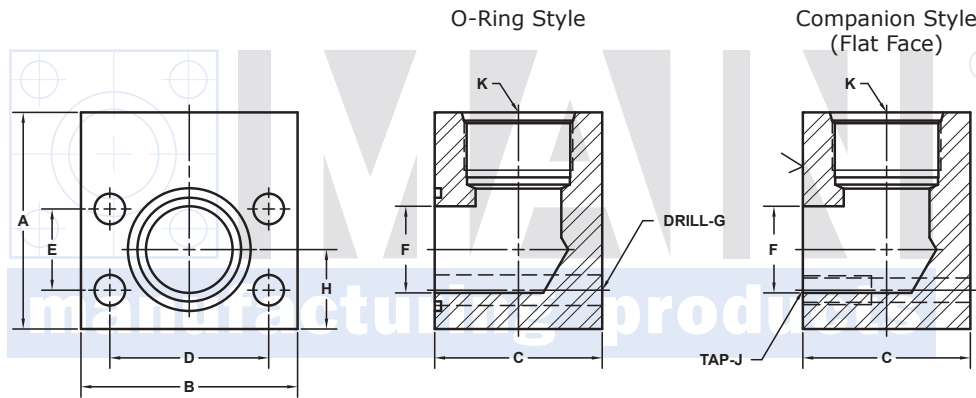
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SAE J1926 THREADED ELBOW FLANGES (Pg 2/2)

SAE J518 61 SERIES / ISO6162-1 PATTERN

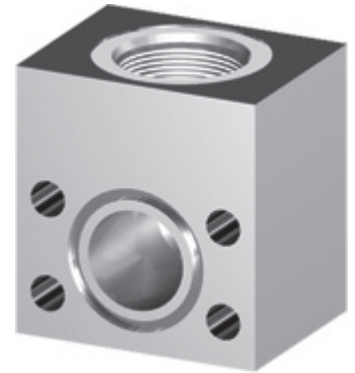
FLANGE SIZE	ORB	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1¼	-16	1177-20-16M10†	3.50	3.19	2.40	2.312	1.188	1.25	10.5	1.25	1 5/16-12	MKM 4532	M10 x 75	222	6.3
		1178-20-16M10†							M10x1.5			-----	-----	---	
1¼	-20	1177-20-20M10†	3.50	3.19	2.40	2.312	1.188	1.25	10.5	1.25	1 5/8-12	MKM 4532	M10 x 75	222	6.1
		1178-20-20M10†							M10x1.5			-----	-----	---	
1¼	-24	1177-20-24M10†	4.00	3.19	3.00	2.312	1.188	1.25	10.5	1.25	1 7/8-12	MKM 4597	M10 x 90	222	8.1
		1178-20-24M10†							M10x1.5			-----	-----	---	
1½	-16	1177-24-16M12‡	4.00	3.75	2.90	2.750	1.406	1.50	13.0	1.38	1 5/16-12	MKM 4533	M12 x 90	225	10.1
		1178-24-16M12‡							M12x1.75			-----	-----	---	
1½	-20	1177-24-20M12‡	4.00	3.75	2.90	2.750	1.406	1.50	13.0	1.38	1 5/8-12	MKM 4533	M12 x 90	225	10.0
		1178-24-20M12‡							M12x1.75			-----	-----	---	
1½	-24	1177-24-24M12‡	4.00	3.75	2.90	2.750	1.406	1.50	13.0	1.38	1 7/8-12	MKM 4533	M12 x 90	225	9.8
		1178-24-24M12‡							M12x1.75			-----	-----	---	
1½	-32	1177-24-32M12‡	4.00	4.00	4.00	2.750	1.406	1.50	13.0	1.38	2 1/2-12	MKM 4566	M12 x 120	225	13.6
		1178-24-32M12‡							M12x1.75			-----	-----	---	
2	-16	1177-32-16M12‡	4.50	4.00	3.00	3.062	1.688	1.94	13.0	1.62	1 5/16-12	MKM 4547	M12 x 90	228	12.0
		1178-32-16M12‡							M12x1.75			-----	-----	---	
2	-20	1177-32-20M12‡	4.50	4.00	3.00	3.062	1.688	1.94	13.0	1.62	1 5/8-12	MKM 4547	M12 x 90	228	11.6
		1178-32-20M12‡							M12x1.75			-----	-----	---	
2	-24	1177-32-24M12‡	4.50	4.00	3.00	3.062	1.688	1.94	13.0	1.62	1 7/8-12	MKM 4547	M12 x 90	228	11.1
		1178-32-24M12‡							M12x1.75			-----	-----	---	
2	-32	1177-32-32M12‡	4.25	4.00	3.94	3.062	1.688	1.94	13.0	1.62	2 1/2-12	MKM 3550	M12 x 120	228	13.9
		1178-32-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:
Low Carbon Steel^⑤



Model 1177 / 1179

Model 1178 / 1180



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	ORB	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1¼	-16	1179-20-16M12‡	4.00	3.75	2.40	2.625	1.250	1.25	13.0	1.38	1 5/16-12	MKM 578	M12 x 80	222	8.6
		1180-20-16M12‡							M12x1.75			-----	-----	---	
1¼	-20	1179-20-20M12‡	4.00	3.75	2.40	2.625	1.250	1.25	13.0	1.38	1 5/8-12	MKM 578	M12 x 80	222	8.6
		1180-20-20M12‡							M12x1.75			-----	-----	---	
1½	-16	1179-24-16M16	4.00	4.50	2.96	3.125	1.437	1.50	17.0	1.62	1 5/16-12	MKM 553	M16 x 100	225	12.7
		1180-24-16M16							M16x2			-----	-----	---	
1½	-20	1179-24-20M16	4.00	4.50	2.96	3.125	1.437	1.50	17.0	1.62	1 5/8-12	MKM 553	M16 x 100	225	12.5
		1180-24-20M16							M16x2			-----	-----	---	
1½	-24	1179-24-24M16	4.00	4.50	2.96	3.125	1.437	1.50	17.0	1.62	1 7/8-12	MKM 553	M16 x 100	225	12.2
		1180-24-24M16							M16x2			-----	-----	---	
2	-20	1179-32-20M20	5.00	5.25	3.46	3.812	1.750	1.94	21.0	2.00	1 5/8-12	MKM 554	M20 x 120	228	15.9
		1180-32-20M20							M20x2.5			-----	-----	---	
2	-24	1179-32-24M20	5.00	5.25	3.46	3.812	1.750	1.94	21.0	2.00	1 7/8-12	MKM 554	M20 x 120	228	15.5
		1180-32-24M20							M20x2.5			-----	-----	---	
2	-32	1179-32-32M20	5.00	5.25	3.94	3.812	1.750	1.94	21.0	2.00	2 1/2-12	MKM 1507	M20 x 130	228	21.1
		1180-32-32M20							M20x2.5			-----	-----	---	

① Order Separately

⑤ May Contain Lead

NOTE: The Pressure Rating of the Assembly Should NOT Exceed the Lower of the Flange Pad or the Fitting. Check the Fitting Manufacturer for Details.

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

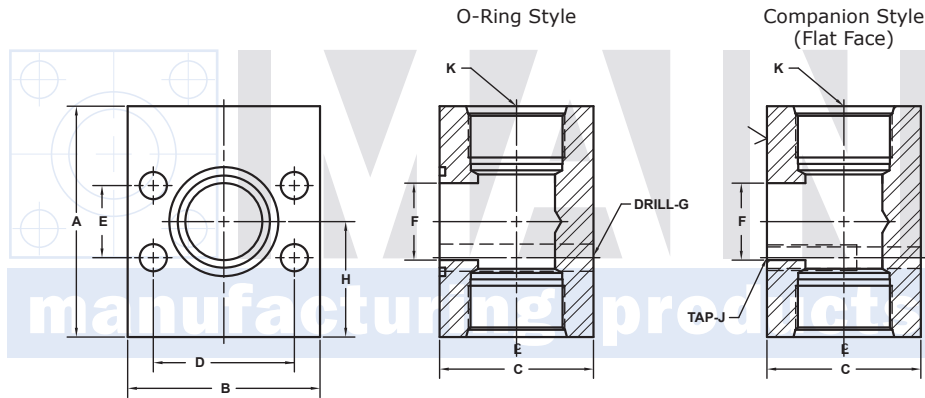
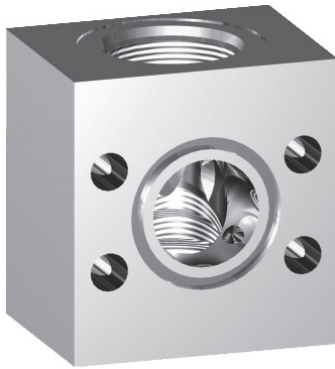
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SAE J1926 THREADED BRANCH TEE FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	ORB	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	-8	1157-08-08M8	2.50	2.12	1.44	1.500	.688	.50	8.5	1.25	3/4-16	MKM 541	M8 x 50	210	1.7
		1158-08-08M8							M8x1.25			-----	-----	---	
3/4	-10	1157-12-10M10	3.00	2.62	1.70	1.875	.875	.50	10.5	1.50	7/8-14	MKM 542	M10 x 60	214	3.0
		1158-12-10M10							M10x1.5			-----	-----	---	
3/4	-12	1157-12-12M10	3.00	2.62	1.70	1.875	.875	.75	10.5	1.50	1 1/16-12	MKM 542	M10 x 60	214	2.8
		1158-12-12M10							M10x1.5			-----	-----	---	
1	-14	1157-16-14M10	4.00	2.82	1.94	2.062	1.031	.75	10.5	2.00	1 3/16-12	MKM 543	M10 x 65	219	4.7
		1158-16-14M10							M10x1.5			-----	-----	---	
1	-16	1157-16-16M10	4.00	2.82	1.94	2.062	1.031	1.00	10.5	2.00	1 5/16-12	MKM 543	M10 x 65	219	4.6
		1158-16-16M10							M10x1.5			-----	-----	---	
1 1/4	-20	1157-20-20M10†	4.50	3.19	2.40	2.312	1.188	1.25	10.5	2.25	1 5/8-12	MKM 4532	M10 x 75	222	7.0
		1158-20-20M10†							M10x1.5			-----	-----	---	
1 1/2	-20	1157-24-20M12‡	4.50	3.75	2.90	2.750	1.406	1.50	13.0	2.25	1 5/8-12	MKM 4533	M12 x 90	225	10.3
		1158-24-20M12‡							M12x1.75			-----	-----	---	
1 1/2	-24	1157-24-24M12‡	4.50	3.75	2.90	2.750	1.406	1.50	13.0	2.25	1 7/8-12	MKM 4533	M12 x 90	225	9.8
		1158-24-24M12‡							M12x1.75			-----	-----	---	
2	-20	1157-32-20M12‡	5.25	4.00	2.94	3.062	1.688	1.94	13.0	2.62	1 5/8-12	MKM 4547	M12 x 90	228	13.2
		1158-32-20M12‡							M12x1.75			-----	-----	---	
2	-24	1157-32-24M12‡	5.25	4.00	2.94	3.062	1.688	1.94	13.0	2.62	1 7/8-12	MKM 4547	M12 x 90	228	12.7
		1158-32-24M12‡							M12x1.75			-----	-----	---	
2	-32	1157-32-32M12‡	5.25	4.00	3.94	3.062	1.688	1.94	13.0	2.62	2 1/2-12	MKM 3550	M12 x 120	228	15.7
		1158-32-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:
Low Carbon Steel^⑤



Model 1157 / 1159

Model 1158 / 1160

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	ORB	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	-8	1159-08-08M8	2.50	2.22	1.46	1.594	.718	.50	8.5	1.25	3/4-16	MKM 541	M8 x 50	210	1.8
		1160-08-08M8							M8x1.25			-----	-----	---	
3/4	-10	1159-12-10M10	3.00	2.81	1.70	2.000	.937	.50	10.5	1.50	7/8-14	MKM 542	M10 x 60	214	3.3
		1160-12-10M10							M10x1.5			-----	-----	---	
3/4	-12	1159-12-12M10	3.00	2.81	1.70	2.000	.937	.75	10.5	1.50	1 1/16-12	MKM 542	M10 x 60	214	3.1
		1160-12-12M10							M10x1.5			-----	-----	---	
1	-14	1159-16-14M12	4.00	3.19	1.96	2.250	1.093	.75	12.5	2.00	1 3/16-12	MKM 551	M12 x 70	219	5.5
		1160-16-14M12							M12x1.75			-----	-----	---	
1	-16	1159-16-16M12	4.00	3.19	1.96	2.250	1.093	1.00	12.5	2.00	1 5/16-12	MKM 551	M12 x 70	219	5.4
		1160-16-16M12							M12x1.75			-----	-----	---	
1 1/4	-20	1159-20-20M12‡	4.50	3.75	2.44	2.625	1.250	1.25	13.0	2.25	1 5/8-12	MKM 578	M12 x 80	222	9.0
		1160-20-20M12‡							M12x1.75			-----	-----	---	
1 1/2	-24	1159-24-24M16	4.50	4.50	2.96	3.125	1.437	1.50	17.0	2.25	1 7/8-12	MKM 553	M16 x 100	225	12.7
		1160-24-24M16							M16x2			-----	-----	---	
2	-32	1159-32-32M20	6.00	5.25	3.94	3.812	1.750	1.94	21.0	3.00	2 1/2-12	MKM 1507	M20 x 130	228	25.8
		1160-32-32M20							M20x2.5			-----	-----	---	

① Order Separately

⑤ May Contain Lead

NOTE: The Pressure Rating of the Assembly Should NOT Exceed the Lower of the Flange Pad or the Fitting. Check the Fitting Manufacturer for Details.

28 NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

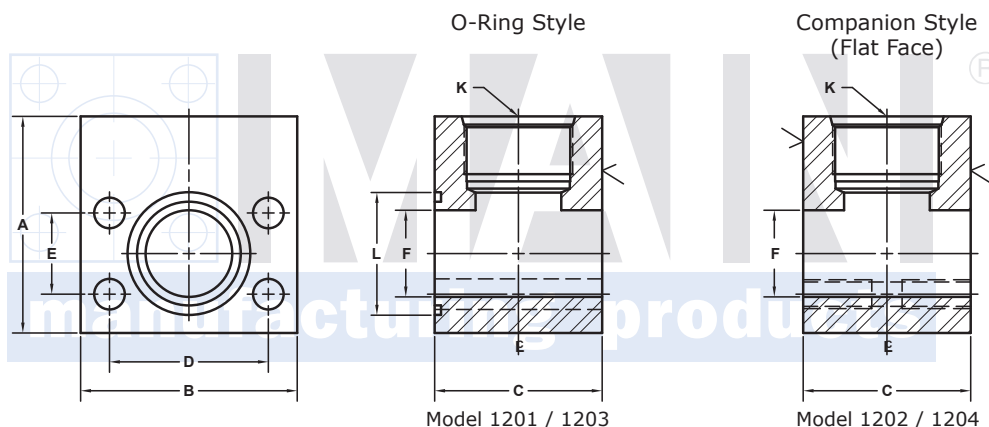
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SAE J1926 THREADED RUN TEE FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	ORB	PART NUMBER	A	B	C	D	E	F	K	L	O-RING ^①	WT
1/2	-8	1201-08-08M8	2.00	2.12	1.44	1.500	.688	.50	3/4-16	1.000	210	1.5
		1202-08-08M8								---	---	
1/2	-12	1201-08-12M8	2.75	2.12	1.75	1.500	.688	.50	1 1/16-12	1.000	210	2.3
		1202-08-12M8								---	---	
3/4	-8	1201-12-08M10	2.50	2.62	1.70	1.875	.875	.75	3/4-16	1.250	214	2.7
		1202-12-08M10								---	---	
3/4	-10	1201-12-10M10	2.50	2.62	1.70	1.875	.875	.75	7/8-14	1.250	214	2.7
		1202-12-10M10								---	---	
3/4	-12	1201-12-12M10	2.50	2.62	1.70	1.875	.875	.75	1 1/16-12	1.250	214	2.5
		1202-12-12M10								---	---	
1	-12	1201-16-12M10	3.00	2.82	1.94	2.062	1.031	1.00	1 1/16-12	1.562	219	3.8
		1202-16-12M10								---	---	
1	-14	1201-16-14M10	3.00	2.82	1.94	2.062	1.031	1.00	1 3/16-12	1.562	219	3.7
		1202-16-14M10								---	---	
1	-16	1201-16-16M10	3.00	2.82	1.94	2.062	1.031	1.00	1 5/16-12	1.562	219	3.5
		1202-16-16M10								---	---	
1 1/4	-20	1201-20-20M10†	3.50	3.19	2.40	2.312	1.188	1.25	1 5/8-12	1.750	222	5.7
		1202-20-20M10†								---	---	
1 1/2	-24	1201-24-24M12‡	4.00	3.75	2.90	2.750	1.406	1.50	1 7/8-12	2.125	225	10.0
		1202-24-24M12‡								---	---	
2	-32	1201-32-32M12‡	4.25	4.00	3.94	3.062	1.688	1.94	2 1/2-12	2.500	228	14.0
		1202-32-32M12‡								---	---	

MATERIAL:
Low Carbon Steel^⑤



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	ORB	PART NUMBER	A	B	C	D	E	F	K	L	O-RING ^①	WT
1/2	-8	1203-08-08M8	2.00	2.22	1.46	1.594	.718	.50	3/4-16	1.000	210	1.7
		1204-08-08M8								---	---	
3/4	-10	1203-12-10M10	2.50	2.81	1.70	2.000	.937	.75	7/8-14	1.250	214	3.0
		1204-12-10M10								---	---	
3/4	-12	1203-12-12M10	2.50	2.81	1.70	2.000	.937	.75	1 1/16-12	1.250	214	2.7
		1204-12-12M10								---	---	
1	-14	1203-16-14M12	3.00	3.19	1.96	2.250	1.093	1.00	1 3/16-12	1.562	219	4.5
		1204-16-14M12								---	---	
1	-16	1203-16-16M12	3.00	3.19	1.96	2.250	1.093	1.00	1 5/16-12	1.562	219	4.5
		1204-16-16M12								---	---	
1 1/4	-20	1203-20-20M12‡	4.00	3.75	2.44	2.625	1.250	1.25	1 5/8-12	1.750	222	7.8
		1204-20-20M12‡								---	---	
1 1/2	-24	1203-24-24M16	4.00	4.50	2.96	3.125	1.437	1.50	1 7/8-12	2.125	225	12.0
		1204-24-24M16								---	---	
2	-32	1203-32-32M20	5.00	5.25	3.94	3.812	1.750	1.94	2 1/2-12	2.500	228	20.2
		1204-32-32M20								---	---	

① Includes Buna-N O-Ring

⑤ May Contain Lead

NOTE: The Pressure Rating of the Assembly Should NOT Exceed the Lower of the Flange Pad or the Fitting. Check the Fitting Manufacturer for Details.

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

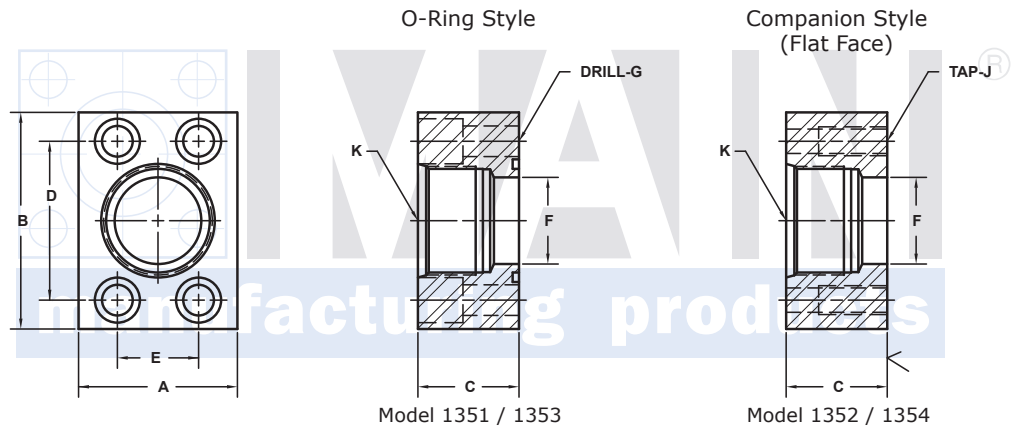
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BSPP THREADED IN-LINE FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PORT SIZE	PART NUMBER	A	B	C	D	E	F	Gmm		K	MOUNTING KIT®			WT
									Jmm			PART NO.	SCREW SIZE	O-RING	
1/2	-8	1351-08-08M8	1.50	2.12	1.25	1.500	.688	.50	8.5		1/2-14	MKM 501	M8 x 30	210	.8
		1352-08-08M8							M8x1.25			-----	-----	---	
3/4	-8	1351-12-08M10	1.75	2.62	1.50	1.875	.875	.74	10.5		1/2-14	MKM 1525	M10 x 35	214	1.4
		1352-12-08M10							M10x1.5			-----	-----	---	
3/4	-12	1351-12-12M10	1.75	2.62	1.50	1.875	.875	.75	10.5		3/4-14	MKM 1525	M10 x 35	214	1.3
		1352-12-12M10							M10x1.5			-----	-----	---	
1	-12	1351-16-12M10	2.00	2.82	1.50	2.062	1.031	.94	10.5		3/4-14	MKM 1542	M10 x 35	219	1.7
		1352-16-12M10							M10x1.5			-----	-----	---	
1	-16	1351-16-16M10	2.00	2.82	1.50	2.062	1.031	1.00	10.5		1-11	MKM 1542	M10 x 35	219	1.6
		1352-16-16M10							M10x1.5			-----	-----	---	
1 1/4	-20	1351-20-20M10†	2.50	3.19	1.50	2.312	1.188	1.25	10.5		1 1/4-11	MKM 4520	M10 x 35	222	2.1
		1352-20-20M10†							M10x1.5			-----	-----	---	
1 1/2	-20	1351-24-20M12‡	2.75	3.75	1.75	2.750	1.406	1.50	13.0		1 1/4-11	MKM 2599	M12 x 45	225	3.4
		1352-24-20M12‡							M12x1.75			-----	-----	---	
1 1/2	-24	1351-24-24M12‡	2.75	3.75	1.75	2.750	1.406	1.50	13.0		1 1/2-11	MKM 2599	M12 x 45	225	3.2
		1352-24-24M12‡							M12x1.75			-----	-----	---	
2	-24	1351-32-24M12‡	3.25	4.00	1.75	3.062	1.688	1.75	13.0		1 1/2-11	MKM 4513	M12 x 45	228	4.5
		1352-32-24M12‡							M12x1.75			-----	-----	---	
2	-32	1351-32-32M12‡	3.25	4.00	2.00	3.062	1.688	1.94	13.0		2-11	MKM 4513	M12 x 45	228	3.8
		1352-32-32M12‡							M12x1.75			-----	-----	---	
2 1/2 ②	-32	1351-40-32M12‡	4.00	4.50	1.75	3.500	2.000	2.12	13.0		2-11	MKM 3562	M12 x 45	232	6.2
		1352-40-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:
Low Carbon Steel^⑤



Model 1351 / 1353

Model 1352 / 1354

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PORT SIZE	PART NUMBER	A	B	C	D	E	F	Gmm	K	MOUNTING KIT®			WT
									Jmm		PART NO.	SCREW SIZE	O-RING	
1/2	-8	1353-08-08M8	1.75	2.22	1.25	1.594	.718	.50	8.5	1/2-14	MKM 501	M8 x 30	210	1.0
		1354-08-08M8							M8x1.25		-----	-----	---	
3/4	-8	1353-12-08M10	2.00	2.81	1.50	2.000	.937	.74	10.5	1/2-14	MKM 1525	M10 x 35	214	1.9
		1354-12-08M10							M10x1.5		-----	-----	---	
3/4	-12	1353-12-12M10	2.00	2.81	1.50	2.000	.937	.75	10.5	3/4-14	MKM 1525	M10 x 35	214	1.7
		1354-12-12M10							M10x1.5		-----	-----	---	
1	-12	1353-16-12M12	2.25	3.19	1.50	2.250	1.093	.94	12.5	3/4-14	MKM 1529	M12 x 40	219	2.3
		1354-16-12M12							M12x1.75		-----	-----	---	
1	-16	1353-16-16M12	2.25	3.19	1.50	2.250	1.093	1.00	12.5	1-11	MKM 1529	M12 x 40	219	2.1
		1354-16-16M12							M12x1.75		-----	-----	---	
1 1/4	-20	1353-20-20M12‡	3.00	3.75	1.50	2.625	1.250	1.25	13.0	1 1/4-11	MKM 567	M12 x 35	222	3.4
		1354-20-20M12‡							M12x1.75		-----	-----	---	
1 1/2	-24	1353-24-24M16	3.25	4.50	1.75	3.125	1.437	1.50	17.0	1 1/2-11	MKM 1544	M16 x 45	225	4.9
		1354-24-24M16							M16x2		-----	-----	---	
2	-32	1353-32-32M20	4.00	5.25	2.00	3.812	1.750	1.94	21.0	2-11	MKM 563	M20 x 45	228	6.7
		1354-32-32M20							M20x2.5		-----	-----	---	

① Order Separately

② 2500 PSI Max

⑤ May Contain Lead

NOTE: The Pressure Rating of the Assembly Should NOT Exceed the Lower of the Flange Pad or the Fitting. Check the Fitting Manufacturer for Details.

30 **NOTE:** DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

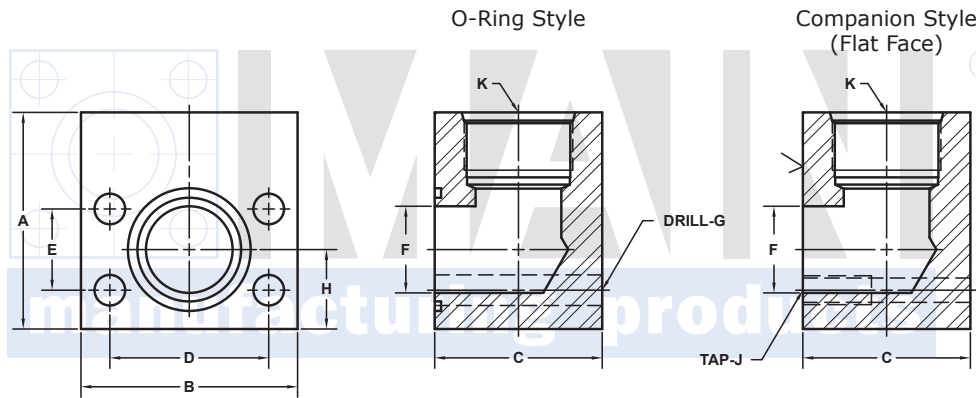
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BSPP THREADED ELBOW FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PORT SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	-8	1359-08-08M8	2.00	2.12	1.44	1.500	.688	.50	8.5	.75	1/2-14	MKM 541	M8 x 50	210	1.5
		1360-08-08M8							M8x1.25			-----	-----	---	
3/4	-8	1359-12-08M10	2.50	2.62	1.70	1.875	.875	.50	10.5	.88	1/2-14	MKM 542	M10 x 60	214	2.7
		1360-12-08M10							M10x1.5			-----	-----	---	
3/4	-12	1359-12-12M10	2.50	2.62	1.70	1.875	.875	.75	10.5	.88	3/4-14	MKM 542	M10 x 60	214	2.5
		1360-12-12M10							M10x1.5			-----	-----	---	
1	-12	1359-16-12M10	3.00	2.82	1.94	2.062	1.031	.75	10.5	1.00	3/4-14	MKM 543	M10 x 65	219	3.9
		1360-16-12M10							M10x1.5			-----	-----	---	
1	-16	1359-16-16M10	3.00	2.82	1.94	2.062	1.031	1.00	10.5	1.00	1-11	MKM 543	M10 x 65	219	3.7
		1360-16-16M10							M10x1.5			-----	-----	---	
1 1/4	-20	1359-20-20M10†	3.50	3.19	2.40	2.312	1.188	1.25	10.5	1.25	1 1/4-11	MKM 4532	M10 x 75	222	5.8
		1360-20-20M10†							M10x1.5			-----	-----	---	
1 1/2	-20	1359-24-20M12‡	4.00	3.75	2.90	2.750	1.406	1.50	13.0	1.38	1 1/4-11	MKM 4533	M12 x 90	225	9.2
		1360-24-20M12‡							M12x1.75			-----	-----	---	
1 1/2	-24	1359-24-24M12‡	4.00	3.75	2.90	2.750	1.406	1.50	13.0	1.38	1 1/2-11	MKM 4533	M12 x 90	225	9.2
		1360-24-24M12‡							M12x1.75			-----	-----	---	
2	-20	1359-32-20M12‡	4.50	4.00	2.96	3.062	1.688	1.94	13.0	1.62	1 1/4-11	MKM 4547	M12 x 90	228	12.0
		1360-32-20M12‡							M12x1.75			-----	-----	---	
2	-24	1359-32-24M12‡	4.50	4.00	2.96	3.062	1.688	1.94	13.0	1.62	1 1/2-11	MKM 4547	M12 x 90	228	12.0
		1360-32-24M12‡							M12x1.75			-----	-----	---	
2	-32	1359-32-32M12‡	4.50	4.00	3.40	3.062	1.688	1.94	13.0	1.62	2-11	MKM 4534	M12 x 100	228	12.0
		1360-32-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:
Low Carbon Steel^⑤



Model 1359 / 1361

Model 1360 / 1362

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PORT SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	-8	1361-08-08M8	2.00	2.22	1.46	1.594	.718	.50	8.5	.88	1/2-14	MKM 541	M8 x 50	210	1.6
		1362-08-08M8							M8x1.25			-----	-----	---	
3/4	-8	1361-12-08M10	2.50	2.81	1.70	2.000	.937	.50	10.5	1.00	1/2-14	MKM 542	M10 x 60	214	3.0
		1362-12-08M10							M10x1.5			-----	-----	---	
3/4	-12	1361-12-12M10	2.50	2.81	1.70	2.000	.937	.75	10.5	1.00	3/4-14	MKM 542	M10 x 60	214	2.8
		1362-12-12M10							M10x1.5			-----	-----	---	
1	-12	1361-16-12M12	3.00	3.19	1.96	2.250	1.093	.75	12.5	1.12	3/4-14	MKM 551	M12 x 70	219	4.5
		1362-16-12M12							M12x1.75			-----	-----	---	
1	-16	1361-16-16M12	3.00	3.19	1.96	2.250	1.093	1.00	12.5	1.12	1-11	MKM 551	M12 x 70	219	4.3
		1362-16-16M12							M12x1.75			-----	-----	---	
1 1/4	-20	1361-20-20M12‡	4.00	3.75	2.44	2.625	1.250	1.25	13.0	1.38	1 1/4-11	MKM 578	M12 x 80	222	8.3
		1362-20-20M12‡							M12x1.75			-----	-----	---	
1 1/2	-24	1361-24-24M16	4.00	4.50	2.96	3.125	1.437	1.50	17.0	1.62	1 1/2-11	MKM 553	M16 x 100	225	12.0
		1362-24-24M16							M16x2			-----	-----	---	
2	-32	1361-32-32M20	5.00	5.25	3.46	3.812	1.750	1.94	21.0	2.00	2-11	MKM 554	M20 x 120	228	19.7
		1362-32-32M20							M20x2.5			-----	-----	---	

① Order Separately

⑤ May Contain Lead

NOTE: The Pressure Rating of the Assembly Should NOT Exceed the Lower of the Flange Pad or the Fitting. Check the Fitting Manufacturer for Details.

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

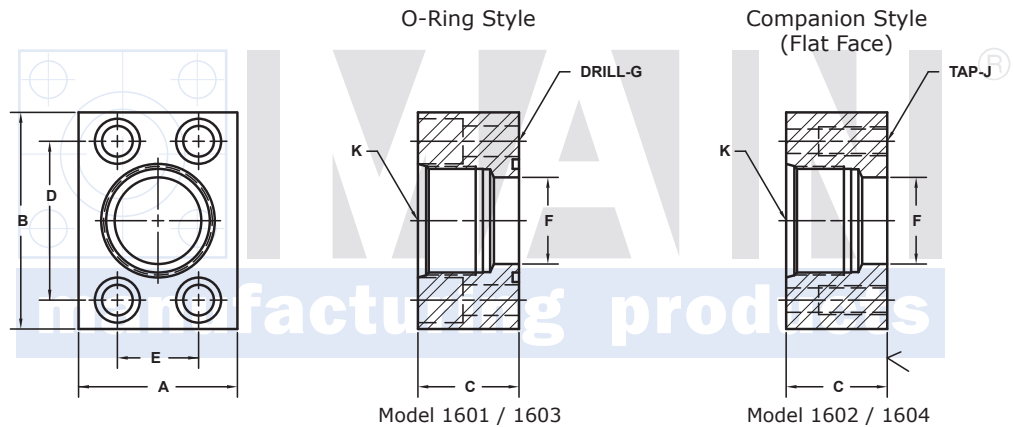
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ISO 6149 THREADED IN-LINE FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PORT SIZE	PART NUMBER	A	B	C	D	E	F	Gmm		K	MOUNTING KIT®			WT
									Jmm			PART NO.	SCREW SIZE	O-RING	
1/2	-8	1601-08-08M8	1.50	2.19	1.25	1.500	.688	.50	8.5		M18x1.5	MKM 501	M8 x 30	210	.9
		1602-08-08M8							M8x1.25			-----	-----	---	
3/4	-10	1601-12-10M10	1.75	2.69	1.50	1.875	.875	.50	10.5		M22x1.5	MKM 1525	M10 x 35	214	1.4
		1602-12-10M10							M10x1.5			-----	-----	---	
3/4	-12	1601-12-12M10	1.75	2.69	1.50	1.875	.875	.75	10.5		M27x2.0	MKM 1525	M10 x 35	214	1.3
		1602-12-12M10							M10x1.5			-----	-----	---	
1	-12	1601-16-12M10	2.00	2.88	1.50	2.062	1.031	.94	10.5		M27x2.0	MKM 1542	M10 x 35	219	1.7
		1602-16-12M10							M10x1.5			-----	-----	---	
1	-16	1601-16-16M10	2.00	2.88	1.50	2.062	1.031	1.00	10.5		M33x2.0	MKM 1542	M10 x 35	219	1.6
		1602-16-16M10							M10x1.5			-----	-----	---	
1 1/4	-20	1601-20-20M10†	2.50	3.19	1.50	2.312	1.188	1.25	10.5		M42x2.0	MKM 4520	M10 x 35	222	2.1
		1602-20-20M10†							M10x1.5			-----	-----	---	
1 1/2	-20	1601-24-20M12‡	2.75	3.75	1.75	2.750	1.406	1.50	13.0		M42x2.0	MKM 2599	M12 x 45	225	3.3
		1602-24-20M12‡							M12x1.75			-----	-----	---	
1 1/2	-24	1601-24-24M12‡	2.75	3.75	1.75	2.750	1.406	1.50	13.0		M48x2.0	MKM 2599	M12 x 45	225	3.5
		1602-24-24M12‡							M12x1.75			-----	-----	---	
2	-24	1601-32-24M12‡	3.25	4.00	1.75	3.062	1.688	1.77	13.0		M48x2.0	MKM 4513	M12 x 45	228	4.4
		1602-32-24M12‡							M12x1.75			-----	-----	---	
2	-32	1601-32-32M12‡	3.25	4.00	1.75	3.062	1.688	1.94	13.0		M60x2.0	MKM 4513	M12 x 45	228	3.7
		1602-32-32M12‡							M12x1.75			-----	-----	---	
2 1/2 ②	-32	1601-40-32M12‡	4.00	4.50	1.75	3.500	2.000	2.12	13.0		M60x2.0	MKM 3562	M12 x 45	232	6.3
		1602-40-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:
Low Carbon Steel^⑤



Model 1601 / 1603

Model 1602 / 1604

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PORT SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	K	MOUNTING KIT®			WT
											PART NO.	SCREW SIZE	O-RING	
1/2	-8	1603-08-08M8	1.75	2.22	1.25	1.594	.718	.50	8.5	M18x1.5	MKM 501	M8 x 30	210	1.1
		1604-08-08M8							M8x1.25		-----	-----	---	
3/4	-10	1603-12-10M10	2.00	2.81	1.50	2.000	.937	.50	10.5	M22x1.5	MKM 1525	M10 x 35	214	2.0
		1604-12-10M10							M10x1.5		-----	-----	---	
3/4	-12	1603-12-12M10	2.00	2.81	1.50	2.000	.937	.75	10.5	M27x2.0	MKM 1525	M10 x 35	214	1.8
		1604-12-12M10							M10x1.5		-----	-----	---	
1	-12	1603-16-12M12	2.25	3.19	1.50	2.250	1.093	.94	12.5	M27x2.0	MKM 1529	M12 x 40	219	2.3
		1604-16-12M12							M12x1.75		-----	-----	---	
1	-16	1603-16-16M12	2.25	3.19	1.50	2.250	1.093	1.00	12.5	M33x2.0	MKM 1529	M12 x 40	219	2.2
		1604-16-16M12							M12x1.75		-----	-----	---	
1 1/4	-20	1603-20-20M12‡	3.00	3.75	1.50	2.625	1.250	1.25	13.0	M42x2.0	MKM 567	M12 x 35	222	3.7
		1604-20-20M12‡							M12x1.75		-----	-----	---	
1 1/2	-24	1603-24-24M16	3.25	4.50	1.75	3.125	1.437	1.50	17.0	M48x2.0	MKM 1544	M16 x 45	225	5.5
		1604-24-24M16							M16x2		-----	-----	---	
2	-32	1603-32-32M20	4.00	5.25	1.75	3.812	1.750	1.94	21.0	M60x2.0	MKM 563	M20 x 45	228	7.5
		1604-32-32M20							M20x2.5		-----	-----	---	

① Order Separately

② 2500 PSI Max

⑤ May Contain Lead

NOTE: The Pressure Rating of the Assembly Should NOT Exceed the Lower of the Flange Pad or the Fitting. Check the Fitting Manufacturer for Details.

32 NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

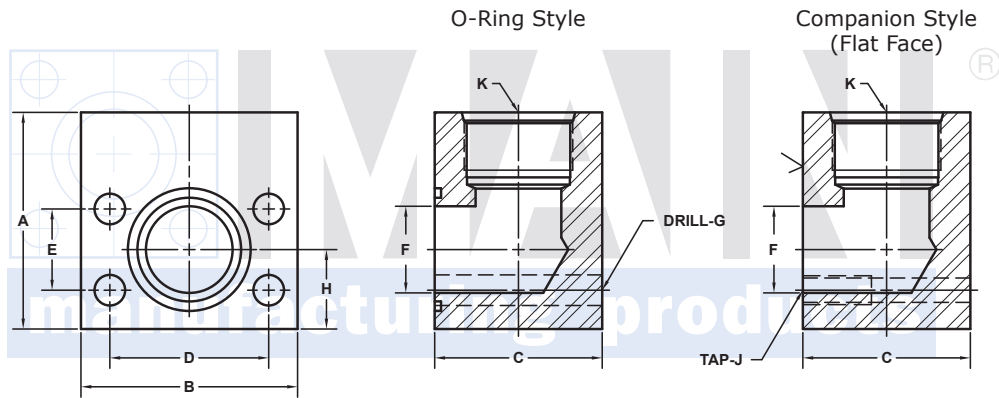
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ISO 6149 THREADED ELBOW FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PORT SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	-8	1605-08-08M8	2.00	2.12	1.44	1.500	.688	.50	8.5	.75	M18x1.5	MKM 541	M8 x 50	210	1.5
		M8x1.25							-----			---			
3/4	-10	1605-12-10M10	2.50	2.62	1.70	1.875	.875	.75	10.5	.88	M22x1.5	MKM 542	M10 x 60	214	2.7
		M10x1.5							-----			---			
3/4	-12	1605-12-12M10	2.50	2.62	1.70	1.875	.875	.75	10.5	.88	M27x2.0	MKM 542	M10 x 60	214	2.5
		M10x1.5							-----			---			
1	-12	1605-16-12M10	3.00	2.82	1.94	2.062	1.031	1.00	10.5	1.00	M27x2.0	MKM 543	M10 x 65	219	3.9
		M10x1.5							-----			---			
1	-16	1605-16-16M10	3.00	2.82	1.94	2.062	1.031	1.00	10.5	1.00	M33x2.0	MKM 543	M10 x 65	219	3.7
		M10x1.5							-----			---			
1 1/4	-20	1605-20-20M10†	3.50	3.19	2.40	2.312	1.188	1.25	10.5	1.25	M42x2.0	MKM 4532	M10 x 75	222	5.8
		M10x1.5							-----			---			
1 1/2	-20	1605-24-20M12‡	4.00	3.75	2.90	2.750	1.406	1.50	13.0	1.38	M42x2.0	MKM 4533	M12 x 90	225	9.2
		M12x1.75							-----			---			
1 1/2	-24	1605-24-24M12‡	4.00	3.75	2.90	2.750	1.406	1.50	13.0	1.38	M48x2.0	MKM 4533	M12 x 90	225	9.4
		M12x1.75							-----			---			
2	-20	1605-32-20M12‡	4.50	4.00	2.96	3.062	1.688	1.94	13.0	1.62	M42x2.0	MKM 4547	M12 x 90	228	12.3
		M12x1.75							-----			---			
2	-24	1605-32-24M12‡	4.50	4.00	2.96	3.062	1.688	1.94	13.0	1.62	M48x2.0	MKM 4547	M12 x 90	228	12.0
		M12x1.75							-----			---			
2	-32	1605-32-32M12‡	4.25	4.00	3.40	3.062	1.688	1.94	13.0	1.62	M60x2.0	MKM 4534	M12 x 100	228	11.5
		M12x1.75							-----			---			

MATERIAL:
Low Carbon Steel^⑤



Model 1605 / 1607

Model 1606 / 1608



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PORT SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	-8	1607-08-08M8	2.00	2.22	1.46	1.594	.718	.50	8.5	.88	M18x1.5	MKM 541	M8 x 50	210	1.6
		M8x1.25							-----			---			
3/4	-10	1607-12-10M10	2.50	2.81	1.70	2.000	.937	.75	10.5	1.00	M22x1.5	MKM 542	M10 x 60	214	3.0
		M10x1.5							-----			---			
3/4	-12	1607-12-12M10	2.50	2.81	1.70	2.000	.937	.75	10.5	1.00	M27x2.0	MKM 542	M10 x 60	214	2.8
		M10x1.5							-----			---			
1	-12	1607-16-12M12	3.00	3.19	1.96	2.250	1.093	1.00	12.5	1.12	M27x2.0	MKM 551	M12 x 70	219	4.5
		M12x1.75							-----			---			
1	-16	1607-16-16M12	3.00	3.19	1.96	2.250	1.093	1.00	12.5	1.12	M33x2.0	MKM 551	M12 x 70	219	4.3
		M12x1.75							-----			---			
1 1/4	-20	1607-20-20M12‡	4.00	3.75	2.44	2.625	1.250	1.25	13.0	1.38	M42x2.0	MKM 578	M12 x 80	222	8.3
		M12x1.75							-----			---			
1 1/2	-24	1607-24-24M16	4.00	4.50	2.96	3.125	1.437	1.50	17.0	1.62	M48x2.0	MKM 553	M16 x 100	225	12.0
		M16x2							-----			---			
2	-32	1607-32-32M20	5.00	5.25	3.46	3.812	1.750	1.94	21.0	2.00	M60x2.0	MKM 554	M20 x 120	228	19.7
		M20x2.5							-----			---			

① Order Separately

⑤ May Contain Lead

NOTE: The Pressure Rating of the Assembly Should NOT Exceed the Lower of the Flange Pad or the Fitting. Check the Fitting Manufacturer for Details.

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

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BUTT WELD IN-LINE FLANGES (Pg 1/2)

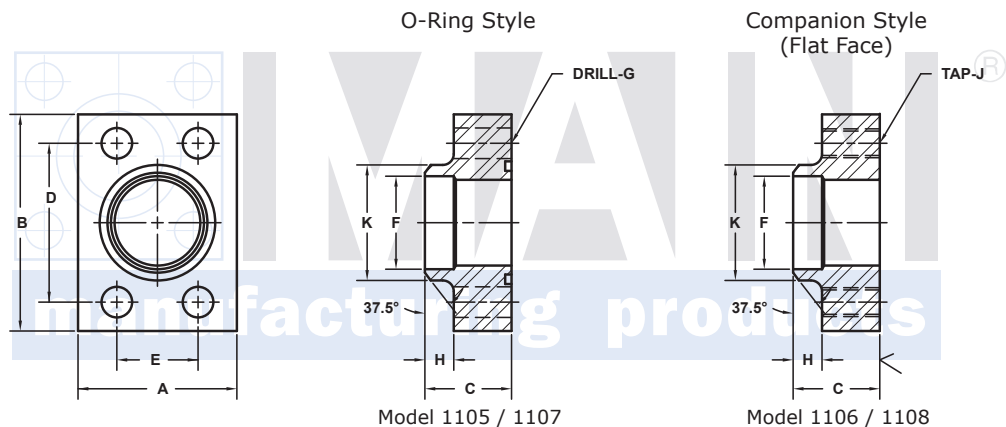
For Schedule 40 Pipe ⑥

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1105-08-08M8	1.50	2.12	1.25	1.500	.688	.62	8.5	.38	.88	MKM 512	M8 x 35	210	.7
		1106-08-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1105-12-08M10	1.75	2.62	1.25	1.875	.875	.62	10.5	.38	.88	MKM 1525	M10 x 35	214	1.0
		1106-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1105-12-12M10	1.75	2.62	1.25	1.875	.875	.82	10.5	.38	1.12	MKM 1525	M10 x 35	214	1.0
		1106-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1105-16-12M10	2.00	2.82	1.25	2.062	1.031	.82	10.5	.38	1.12	MKM 1542	M10 x 35	219	1.3
		1106-16-12M10							M10x1.5			-----	-----	---	
1	1	1105-16-16M10	2.00	2.82	1.25	2.062	1.031	1.04	10.5	.38	1.38	MKM 1542	M10 x 35	219	1.2
		1106-16-16M10							M10x1.5			-----	-----	---	
1 1/4	1	1105-20-16M10†	2.50	3.19	1.25	2.312	1.188	1.04	10.5	.38	1.38	MKM 4520	M10 x 35	222	1.7
		1106-20-16M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/4	1105-20-20M10†	2.50	3.19	1.25	2.312	1.188	1.38	10.5	.38	1.75	MKM 4520	M10 x 35	222	1.6
		1106-20-20M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/2	-----	2.50	3.19	1.50	2.312	1.188	1.61	----	.50	2.00	-----	-----	---	2.0
		1106-20-24M10†							M10x1.5			-----	-----	---	
1 1/2	1 1/4	1105-24-20M12‡	2.75	3.75	1.50	2.750	1.406	1.38	13.0	.50	1.75	MKM 4551	M12 x 40	225	2.6
		1106-24-20M12‡							M12x1.75			-----	-----	---	
1 1/2	1 1/2	1105-24-24M12‡	2.75	3.75	1.50	2.750	1.406	1.61	13.0	.50	2.00	MKM 4551	M12 x 40	225	2.3
		1106-24-24M12‡							M12x1.75			-----	-----	---	
1 1/2	2	-----	3.50	3.75	2.25	2.750	1.406	2.06	----	.50	2.50	-----	-----	---	5.6
		1106-24-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:

Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1½	1½	1107-08-08M8	1.75	2.22	1.25	1.594	.718	.62	8.5	.38	.88	MKM 512	M8 x 35	210	.8
		1108-08-08M8							M8x1.25			-----	-----	---	
¾	1½	1107-12-08M10	2.00	2.81	1.25	2.000	.937	.62	10.5	.38	.88	MKM 1525	M10 x 35	214	1.3
		1108-12-08M10							M10x1.5			-----	-----	---	
¾	¾	1107-12-12M10	2.00	2.81	1.25	2.000	.937	.82	10.5	.38	1.12	MKM 1525	M10 x 35	214	1.3
		1108-12-12M10							M10x1.5			-----	-----	---	
1	¾	1107-16-12M12	2.25	3.19	1.25	2.250	1.093	.82	12.5	.38	1.12	MKM 4569	M12 x 40	219	1.6
		1108-16-12M12							M12x1.75			-----	-----	---	
1	1	1107-16-16M12	2.25	3.19	1.25	2.250	1.093	1.04	12.5	.38	1.38	MKM 4569	M12 x 40	219	1.5
		1108-16-16M12							M12x1.75			-----	-----	---	
1¼	1	1107-20-16M12‡	2.75	3.75	1.25	2.625	1.250	1.04	13.0	.38	1.38	MKM 1527	M12 x 40	222	2.3
		1108-20-16M12‡							M12x1.75			-----	-----	---	
1¼	1¼	1107-20-20M12‡	2.75	3.75	1.25	2.625	1.250	1.38	13.0	.38	1.75	MKM 1527	M12 x 40	222	2.1
		1108-20-20M12‡							M12x1.75			-----	-----	---	
1¼	1½	-----	3.00	3.75	1.50	2.625	1.250	1.61	----	.50	2.00	-----	-----	---	3.1
		1108-20-24M12‡							M12x1.75			-----	-----	---	

① Order Separately

⑥ Other Pipe and Tube Sizes are Available

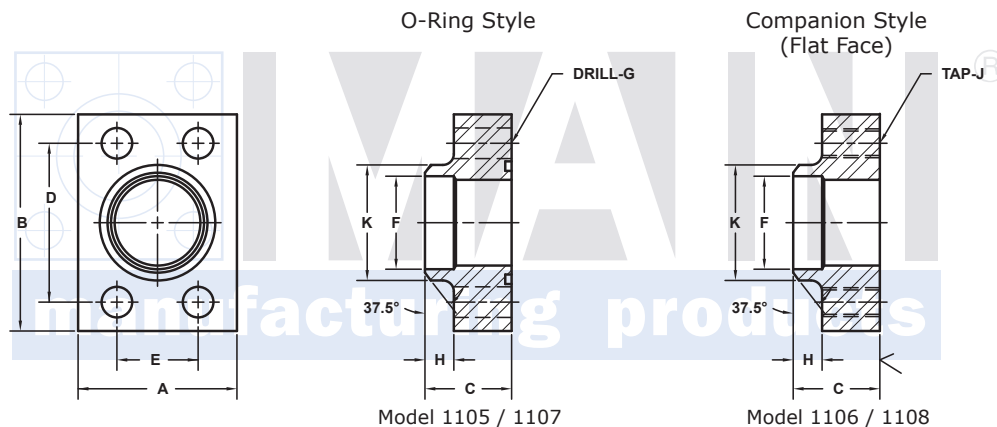
BUTT WELD IN-LINE FLANGES (Pg 2/2)

For Schedule 40 Pipe ®

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
2	1¼	1105-32-20M12+	3.25	4.00	1.50	3.062	1.688	1.38	13.0	.50	1.75	MKM 4552	M12 x 45	228	3.3
		1106-32-20M12+							M12x1.75			-----	-----	---	
2	1½	1105-32-24M12+	3.25	4.00	1.50	3.062	1.688	1.61	13.0	.50	2.00	MKM 4552	M12 x 45	228	3.2
		1106-32-24M12+							M12x1.75			-----	-----	---	
2	2	1105-32-32M12+	3.25	4.00	1.50	3.062	1.688	2.06	13.0	.50	2.50	MKM 4552	M12 x 45	228	2.8
		1106-32-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2	1105-40-32M12+	4.00	4.50	1.75	3.500	2.000	2.06	13.0	.50	2.50	MKM 2575	M12 x 50	232	5.3
		1106-40-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2½	1105-40-40M12+	4.00	4.50	1.75	3.500	2.000	2.47	13.0	.50	3.00	MKM 2575	M12 x 50	232	4.8
		1106-40-40M12+							M12x1.75			-----	-----	---	
3 ^③	2½	1105-48-40M16	4.50	5.31	2.00	4.188	2.438	2.47	17.0	.50	3.00	MKM 585	M16 x 60	237	8.1
		1106-48-40M16							M16x2			-----	-----	---	
3 ^③	3	1105-48-48M16	4.50	5.31	2.00	4.188	2.438	3.06	17.0	.50	3.50	MKM 585	M16 x 60	237	7.2
		1106-48-48M16							M16x2			-----	-----	---	
3½ ^④	3	1105-56-48M16	5.00	6.00	1.50	4.750	2.750	3.06	17.0	.50	3.50	MKM 1571	M16 x 50	241	6.6
		1106-56-48M16							M16x2			-----	-----	---	
3½ ^④	3½	1105-56-56M16	5.00	6.00	1.50	4.750	2.750	3.54	17.0	.50	4.00	MKM 1571	M16 x 50	241	5.9
		1106-56-56M16							M16x2			-----	-----	---	
4 ^④	3	1105-64-48M16	5.50	6.38	1.50	5.125	3.062	3.06	17.0	.50	3.50	MKM 1572	M16 x 50	245	8.1
		1106-64-48M16							M16x2			-----	-----	---	
4 ^④	4	1105-64-64M16	5.50	6.38	1.50	5.125	3.062	4.02	17.0	.50	4.50	MKM 1572	M16 x 50	245	6.7
		1106-64-64M16							M16x2			-----	-----	---	

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1½	1¼	1107-24-20M16	3.25	4.50	1.50	3.125	1.437	1.38	17.0	.50	1.75	MKM 562	M16 x 45	225	3.5
		1108-24-20M16							M16x2			-----	-----	---	
1½	1½	1107-24-24M16	3.25	4.50	1.50	3.125	1.437	1.61	17.0	.50	2.00	MKM 562	M16 x 45	225	3.3
		1108-24-24M16							M16x2			-----	-----	---	
1½	2	-----	4.00	4.50	2.00	3.125	1.437	2.06	----	.50	2.50	-----	-----	---	6.8
		1108-24-32M16							M16x2			-----	-----	---	
2	1½	1107-32-24M20	4.00	5.25	1.75	3.812	1.750	1.61	21.0	.50	2.00	MKM 1548	M20 x 60	228	6.4
		1108-32-24M20							M20x2.5			-----	-----	---	
2	2	1107-32-32M20	4.00	5.25	1.75	3.812	1.750	2.06	21.0	.50	2.50	MKM 1548	M20 x 60	228	5.9
		1108-32-32M20							M20x2.5			-----	-----	---	
2½	2	1107-40-32M24	5.00	6.88	2.00	4.875	2.312	2.06	25.5	.50	2.50	MKM 1575	M24 x 70	232	12.8
		1108-40-32M24							M24x3			-----	-----	---	
2½	2½	1107-40-40M24	5.00	6.88	2.00	4.875	2.312	2.47	25.5	.50	3.00	MKM 1575	M24 x 70	232	12.0
		1108-40-40M24							M24x3			-----	-----	---	
3	3	1107-48-48M30	6.00	8.50	2.50	6.000	2.812	3.06	32.0	.50	3.50	MKM 1576	M30 x 100	237	23.3
		1108-48-48M30							M30x3.5			-----	-----	---	

① Order Separately ② 2500 PSI Max ③ 2000 PSI Max ④ 500 PSI Max

® Other Pipe and Tube Sizes are Available

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. + Also Available for M12 Bolts + Also Available for M14 Bolts

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BUTT WELD IN-LINE FLANGES (Pg 1/2)

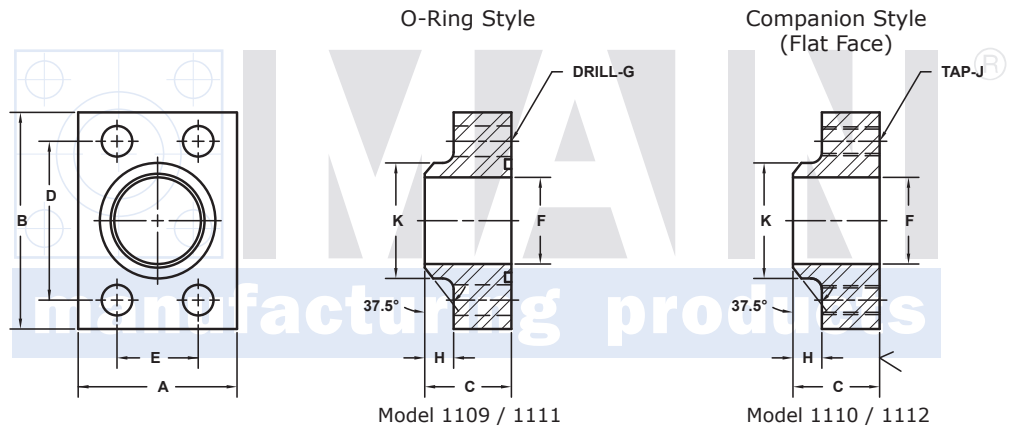
For Schedule 80 Pipe ⑥

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1109-08-08M8	1.50	2.12	1.25	1.500	.688	.53	8.5	.38	.88	MKM 512	M8 x 35	210	.7
		1110-08-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1109-12-08M10	1.75	2.62	1.25	1.875	.875	.53	10.5	.38	.88	MKM 1525	M10 x 35	214	1.0
		1110-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1109-12-12M10	1.75	2.62	1.25	1.875	.875	.75	10.5	.38	1.12	MKM 1525	M10 x 35	214	1.0
		1110-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1109-16-12M10	2.00	2.82	1.25	2.062	1.031	.75	10.5	.38	1.12	MKM 1542	M10 x 35	219	1.3
		1110-16-12M10							M10x1.5			-----	-----	---	
1	1	1109-16-16M10	2.00	2.82	1.25	2.062	1.031	.94	10.5	.38	1.38	MKM 1542	M10 x 35	219	1.2
		1110-16-16M10							M10x1.5			-----	-----	---	
1 1/4	1	1109-20-16M10†	2.50	3.19	1.25	2.312	1.188	.94	10.5	.38	1.38	MKM 4520	M10 x 35	222	1.8
		1110-20-16M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/4	1109-20-20M10†	2.50	3.19	1.25	2.312	1.188	1.25	10.5	.38	1.75	MKM 4520	M10 x 35	222	1.6
		1110-20-20M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/2	-----	2.50	3.19	1.50	2.312	1.188	1.25	---	.50	2.00	-----	-----	---	2.1
		1110-20-24M10†							M10x1.5			-----	-----	---	
1 1/2	1 1/4	1109-24-20M12‡	2.75	3.75	1.50	2.750	1.406	1.25	13.0	.50	1.75	MKM 4551	M12 x 40	225	2.6
		1110-24-20M12‡							M12x1.75			-----	-----	---	
1 1/2	1 1/2	1109-24-24M12‡	2.75	3.75	1.50	2.750	1.406	1.50	13.0	.50	2.00	MKM 4551	M12 x 40	225	2.3
		1110-24-24M12‡							M12x1.75			-----	-----	---	
1 1/2	2	-----	3.50	3.75	2.25	2.750	1.406	1.50	---	.50	2.50	-----	-----	---	5.8
		1110-24-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:

Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1111-08-08M8	1.75	2.22	1.25	1.594	.718	.53	8.5	.38	.88	MKM 512	M8 x 35	210	.8
		1112-08-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1111-12-08M10	2.00	2.81	1.25	2.000	.937	.53	10.5	.38	.88	MKM 1525	M10 x 35	214	1.3
		1112-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1111-12-12M10	2.00	2.81	1.25	2.000	.937	.75	10.5	.38	1.12	MKM 1525	M10 x 35	214	1.3
		1112-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1111-16-12M12	2.25	3.19	1.25	2.250	1.093	.75	12.5	.38	1.12	MKM 4569	M12 x 40	219	1.6
		1112-16-12M12							M12x1.75			-----	-----	---	
1	1	1111-16-16M12	2.25	3.19	1.25	2.250	1.093	.94	12.5	.38	1.38	MKM 4569	M12 x 40	219	1.5
		1112-16-16M12							M12x1.75			-----	-----	---	
1 1/4	1	1111-20-16M12‡	2.75	3.75	1.25	2.625	1.250	.94	13.0	.38	1.38	MKM 1527	M12 x 40	222	2.3
		1112-20-16M12‡							M12x1.75			-----	-----	---	
1 1/4	1 1/4	1111-20-20M12‡	2.75	3.75	1.25	2.625	1.250	1.25	13.0	.38	1.75	MKM 1527	M12 x 40	222	2.1
		1112-20-20M12‡							M12x1.75			-----	-----	---	
1 1/4	1 1/2	-----	3.00	3.75	1.50	2.625	1.250	1.25	----	.50	2.00	-----	-----	---	3.1
		1112-20-24M12‡							M12x1.75			-----	-----	---	

① Order Separately

⑥ Other Pipe and Tube Sizes are Available

36 NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

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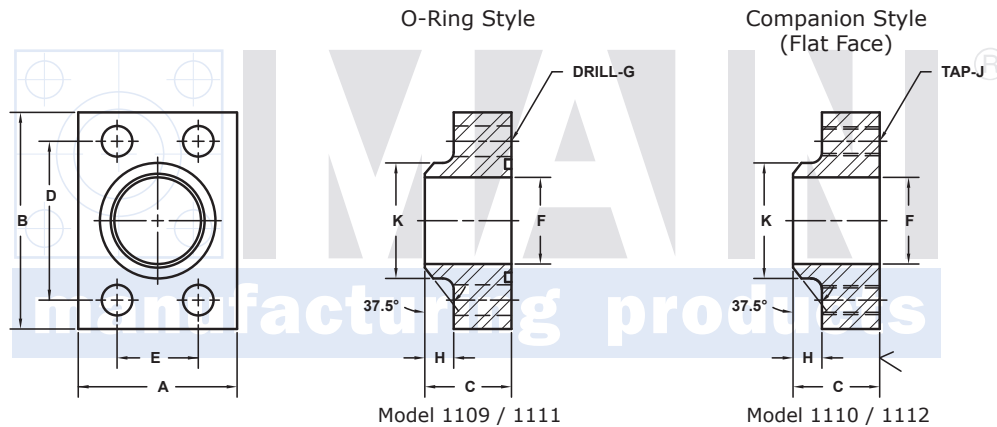
BUTT WELD IN-LINE FLANGES (Pg 2/2)

For Schedule 80 Pipe ®

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
2	1¼	1109-32-20M12+	3.25	4.00	1.50	3.062	1.688	1.25	13.0	.50	1.75	MKM 4552	M12 x 45	228	3.4
		1110-32-20M12+							M12x1.75			-----	-----	---	
2	1½	1109-32-24M12+	3.25	4.00	1.50	3.062	1.688	1.50	13.0	.50	2.00	MKM 4552	M12 x 45	228	3.2
		1110-32-24M12+							M12x1.75			-----	-----	---	
2	2	1109-32-32M12+	3.25	4.00	1.50	3.062	1.688	1.94	13.0	.50	2.50	MKM 4552	M12 x 45	228	2.8
		1110-32-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2	1109-40-32M12+	4.00	4.50	1.75	3.500	2.000	1.94	13.0	.50	2.50	MKM 2575	M12 x 50	232	5.4
		1110-40-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2½	1109-40-40M12+	4.00	4.50	1.75	3.500	2.000	2.32	13.0	.50	3.00	MKM 2575	M12 x 50	232	4.8
		1110-40-40M12+							M12x1.75			-----	-----	---	
3 ^③	2½	1109-48-40M16	4.50	5.31	2.00	4.188	2.438	2.32	17.0	.50	3.00	MKM 585	M16 x 60	237	8.3
		1110-48-40M16							M16x2			-----	-----	---	
3 ^③	3	1109-48-48M16	4.50	5.31	2.00	4.188	2.438	2.90	17.0	.50	3.50	MKM 585	M16 x 60	237	7.2
		1110-48-48M16							M16x2			-----	-----	---	
3½ ^④	3	1109-56-48M16	5.00	6.00	1.50	4.750	2.750	2.90	17.0	.50	3.50	MKM 1571	M16 x 50	241	6.8
		1110-56-48M16							M16x2			-----	-----	---	
3½ ^④	3½	1109-56-56M16	5.00	6.00	1.50	4.750	2.750	3.36	17.0	.50	4.00	MKM 1571	M16 x 50	241	5.9
		1110-56-56M16							M16x2			-----	-----	---	
4 ^④	3	1109-64-48M16	5.50	6.38	1.50	5.125	3.062	2.90	17.0	.50	3.50	MKM 1572	M16 x 50	245	8.2
		1110-64-48M16							M16x2			-----	-----	---	
4 ^④	4	1109-64-64M16	5.50	6.38	1.50	5.125	3.062	3.83	17.0	.50	4.50	MKM 1572	M16 x 50	245	6.7
		1110-64-64M16							M16x2			-----	-----	---	

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1½	1¼	1111-24-20M16	3.25	4.50	1.50	3.125	1.437	1.25	17.0	.50	1.75	MKM 562	M16 x 45	225	3.7
		1112-24-20M16							M16x2			-----	-----	---	
1½	1½	1111-24-24M16	3.25	4.50	1.50	3.125	1.437	1.50	17.0	.50	2.00	MKM 562	M16 x 45	225	3.3
		1112-24-24M16							M16x2			-----	-----	---	
1½	2	-----	4.00	4.50	2.00	3.125	1.437	1.50	-----	.50	2.50	-----	-----	---	6.9
		1112-24-32M16							M16x2			-----	-----	---	
2	1½	1111-32-24M20	4.00	5.25	1.75	3.812	1.750	1.50	21.0	.50	2.00	MKM 1548	M20 x 60	228	6.6
		1112-32-24M20							M20x2.5			-----	-----	---	
2	2	1111-32-32M20	4.00	5.25	1.75	3.812	1.750	1.94	21.0	.50	2.50	MKM 1548	M20 x 60	228	5.9
		1112-32-32M20							M20x2.5			-----	-----	---	
2½	2	1111-40-32M24	5.00	6.88	2.00	4.875	2.312	1.94	25.5	.50	2.50	MKM 1575	M24 x 70	232	12.8
		1112-40-32M24							M24x3			-----	-----	---	
2½	2½	1111-40-40M24	5.00	6.88	2.00	4.875	2.312	2.32	25.5	.50	3.00	MKM 1575	M24 x 70	232	12.0
		1112-40-40M24							M24x3			-----	-----	---	
3	3	1111-48-48M30	6.00	8.50	2.50	6.000	2.812	2.90	32.0	.50	3.50	MKM 1576	M30 x 100	237	23.3
		1112-48-48M30							M30x3.5			-----	-----	---	

① Order Separately ② 2500 PSI Max ③ 2000 PSI Max ④ 500 PSI Max

® Other Pipe and Tube Sizes are Available

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. + Also Available for M12 Bolts + Also Available for M14 Bolts

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BUTT WELD IN-LINE FLANGES (Pg 1/2)

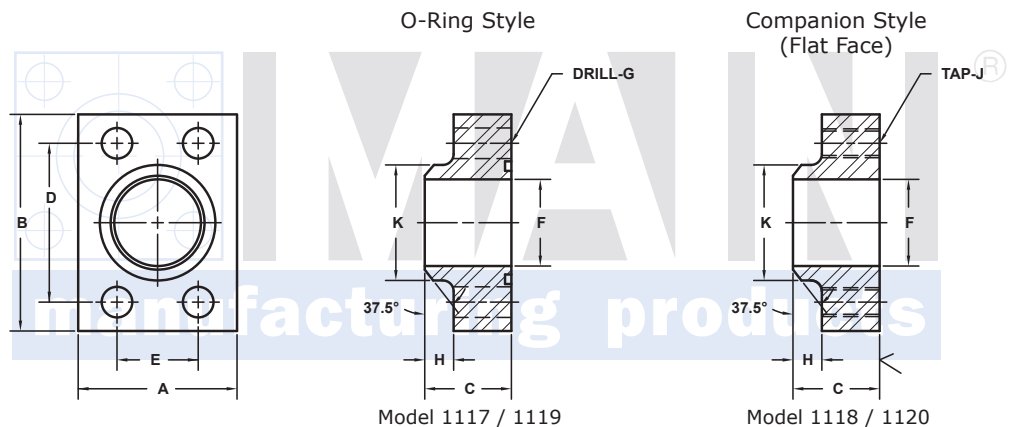
For Schedule 160 Pipe ©

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1117-08-08M8	1.50	2.12	1.25	1.500	.688	.47	8.5	.38	.88	MKM 512	M8 x 35	210	.7
		1118-08-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1117-12-08M10	1.75	2.62	1.25	1.875	.875	.47	10.5	.38	.88	MKM 1525	M10 x 35	214	1.1
		1118-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1117-12-12M10	1.75	2.62	1.25	1.875	.875	.61	10.5	.38	1.12	MKM 1525	M10 x 35	214	1.0
		1118-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1117-16-12M10	2.00	2.82	1.25	2.062	1.031	.61	10.5	.38	1.12	MKM 1542	M10 x 35	219	1.3
		1118-16-12M10							M10x1.5			-----	-----	---	
1	1	1117-16-16M10	2.00	2.82	1.25	2.062	1.031	.81	10.5	.38	1.38	MKM 1542	M10 x 35	219	1.2
		1118-16-16M10							M10x1.5			-----	-----	---	
1 1/4	1	1117-20-16M10+	2.50	3.19	1.25	2.312	1.188	.81	10.5	.38	1.38	MKM 4520	M10 x 35	222	1.8
		1118-20-16M10+							M10x1.5			-----	-----	---	
1 1/4	1 1/4	1117-20-20M10+	2.50	3.19	1.25	2.312	1.188	1.16	10.5	.38	1.75	MKM 4520	M10 x 35	222	1.6
		1118-20-20M10+							M10x1.5			-----	-----	---	
1 1/4	1 1/2	-----	2.50	3.19	1.50	2.312	1.188	1.25	----	.50	2.00	-----	-----	---	2.1
		1118-20-24M10+							M10x1.5			-----	-----	---	
1 1/2	1 1/4	1117-24-20M12‡	2.75	3.75	1.50	2.750	1.406	1.16	13.0	.50	1.75	MKM 4551	M12 x 40	225	2.6
		1118-24-20M12‡							M12x1.75			-----	-----	---	
1 1/2	1 1/2	1117-24-24M12‡	2.75	3.75	1.50	2.750	1.406	1.34	13.0	.50	2.00	MKM 4551	M12 x 40	225	2.3
		1118-24-24M12‡							M12x1.75			-----	-----	---	
1 1/2	2	-----	3.50	3.75	2.25	2.750	1.406	1.50	----	.50	2.50	-----	-----	---	5.8
		1118-24-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:

Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1½	1½	1119-08-08M8	1.75	2.22	1.25	1.594	.718	.47	8.5	.38	.88	MKM 512	M8 x 35	210	.8
		1120-08-08M8							M8x1.25			-----	-----	---	
¾	1½	1119-12-08M10	2.00	2.81	1.25	2.000	.937	.47	10.5	.38	.88	MKM 1525	M10 x 35	214	1.3
		1120-12-08M10							M10x1.5			-----	-----	---	
¾	¾	1119-12-12M10	2.00	2.81	1.25	2.000	.937	.61	10.5	.38	1.12	MKM 1525	M10 x 35	214	1.3
		1120-12-12M10							M10x1.5			-----	-----	---	
1	¾	1119-16-12M12	2.25	3.19	1.25	2.250	1.093	.61	12.5	.38	1.12	MKM 4569	M12 x 40	219	1.7
		1120-16-12M12							M12x1.75			-----	-----	---	
1	1	1119-16-16M12	2.25	3.19	1.25	2.250	1.093	.81	12.5	.38	1.38	MKM 4569	M12 x 40	219	1.5
		1120-16-16M12							M12x1.75			-----	-----	---	
1¼	1	1119-20-16M12‡	2.75	3.75	1.25	2.625	1.250	.81	13.0	.38	1.38	MKM 1527	M12 x 40	222	2.4
		1120-20-16M12‡							M12x1.75			-----	-----	---	
1¼	1¼	1119-20-20M12‡	2.75	3.75	1.25	2.625	1.250	1.16	13.0	.38	1.75	MKM 1527	M12 x 40	222	2.1
		1120-20-20M12‡							M12x1.75			-----	-----	---	
1¼	1½	-----	3.00	3.75	1.50	2.625	1.250	1.25	----	.50	2.00	-----	-----	---	3.1
		1120-20-24M12‡							M12x1.75			-----	-----	---	

① Order Separately

⑥ Other Pipe and Tube Sizes are Available

38 NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

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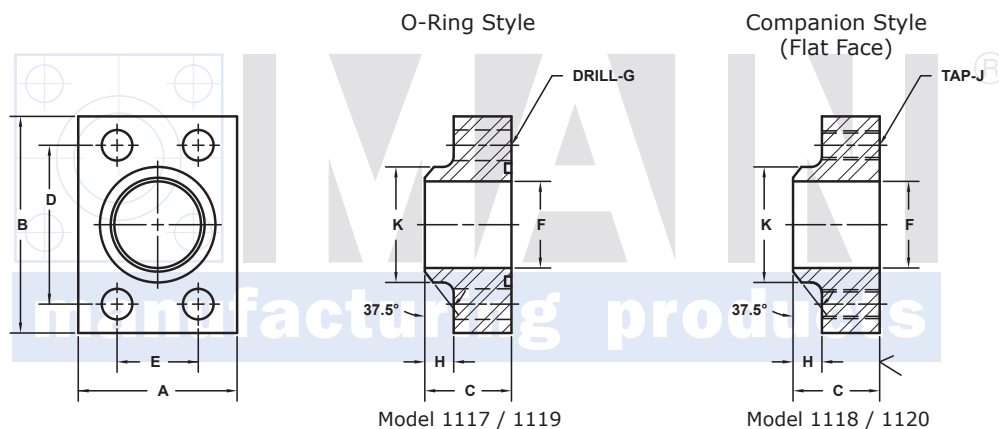
BUTT WELD IN-LINE FLANGES (Pg 2/2)

For Schedule 160 Pipe ®

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
2	1¼	1117-32-20M12+	3.25	4.00	1.50	3.062	1.688	1.16	13.0	.50	1.75	MKM 4552	M12 x 45	228	3.4
		1118-32-20M12+							M12x1.75			-----	-----	---	
2	1½	1117-32-24M12+	3.25	4.00	1.50	3.062	1.688	1.34	13.0	.50	2.00	MKM 4552	M12 x 45	228	3.3
		1118-32-24M12+							M12x1.75			-----	-----	---	
2	2	1117-32-32M12+	3.25	4.00	1.50	3.062	1.688	1.69	13.0	.50	2.50	MKM 4552	M12 x 45	228	2.8
		1118-32-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2	1117-40-32M12+	4.00	4.50	1.75	3.500	2.000	1.69	13.0	.50	2.50	MKM 2575	M12 x 50	232	5.7
		1118-40-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2½	1117-40-40M12+	4.00	4.50	1.75	3.500	2.000	2.12	13.0	.50	3.00	MKM 2575	M12 x 50	232	4.8
		1118-40-40M12+							M12x1.75			-----	-----	---	
3 ^③	2½	1117-48-40M16	4.50	5.31	2.00	4.188	2.438	2.12	17.0	.50	3.00	MKM 585	M16 x 60	237	8.7
		1118-48-40M16							M16x2			-----	-----	---	
3 ^③	3	1117-48-48M16	4.50	5.31	2.00	4.188	2.438	2.62	17.0	.50	3.50	MKM 585	M16 x 60	237	7.2
		1118-48-48M16							M16x2			-----	-----	---	
3½ ^④	3	1117-56-48M16	5.00	6.00	1.50	4.750	2.750	2.62	17.0	.50	3.50	MKM 1571	M16 x 50	241	7.2
		1118-56-48M16							M16x2			-----	-----	---	
3½ ^④	3½	1117-56-56M16	5.00	6.00	1.50	4.750	2.750	3.00	17.0	.50	4.00	MKM 1571	M16 x 50	241	5.9
		1118-56-56M16							M16x2			-----	-----	---	
4 ^④	3	1117-64-48M16	5.50	6.38	1.50	5.125	3.062	2.62	17.0	.50	3.50	MKM 1572	M16 x 50	245	8.6
		1118-64-48M16							M16x2			-----	-----	---	
4 ^④	4	1117-64-64M16	5.50	6.38	1.50	5.125	3.062	3.44	17.0	.50	4.50	MKM 1572	M16 x 50	245	6.7
		1118-64-64M16							M16x2			-----	-----	---	

MATERIAL:
Low Carbon Steel



Model 1117 / 1119

Model 1118 / 1120



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1½	1¼	1119-24-20M16	3.25	4.50	1.50	3.125	1.437	1.16	17.0	.50	1.75	MKM 562	M16 x 45	225	3.8
		1120-24-20M16							M16x2			-----	-----	---	
1½	1½	1119-24-24M16	3.25	4.50	1.50	3.125	1.437	1.34	17.0	.50	2.00	MKM 562	M16 x 45	225	3.3
		1120-24-24M16							M16x2			-----	-----	---	
1½	2	-----	4.00	4.50	2.00	3.125	1.437	1.50	----	.50	2.50	-----	-----	---	6.9
		1120-24-32M16							M16x2			-----	-----	---	
2	1½	1119-32-24M20	4.00	5.25	1.75	3.812	1.750	1.34	21.0	.50	2.00	MKM 1548	M20 x 60	228	6.7
		1120-32-24M20							M20x2.5			-----	-----	---	
2	2	1119-32-32M20	4.00	5.25	1.75	3.812	1.750	1.69	21.0	.50	2.50	MKM 1548	M20 x 60	228	5.9
		1120-32-32M20							M20x2.5			-----	-----	---	
2½	2	1119-40-32M24	5.00	6.88	2.00	4.875	2.312	1.69	25.5	.50	2.50	MKM 1575	M24 x 70	232	13.2
		1120-40-32M24							M24x3			-----	-----	---	
2½	2½	1119-40-40M24	5.00	6.88	2.00	4.875	2.312	2.12	25.5	.50	3.00	MKM 1575	M24 x 70	232	12.0
		1120-40-40M24							M24x3			-----	-----	---	
3	3	1119-48-48M30	6.00	8.50	2.50	6.000	2.812	2.62	32.0	.50	3.50	MKM 1576	M30 x 100	237	23.3
		1120-48-48M30							M30x3.5			-----	-----	---	

① Order Separately ② 2500 PSI Max ③ 2000 PSI Max ④ 500 PSI Max

® Other Pipe and Tube Sizes are Available

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. + Also Available for M12 Bolts + Also Available for M14 Bolts

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BUTT WELD IN-LINE FLANGES (Pg 1/2)

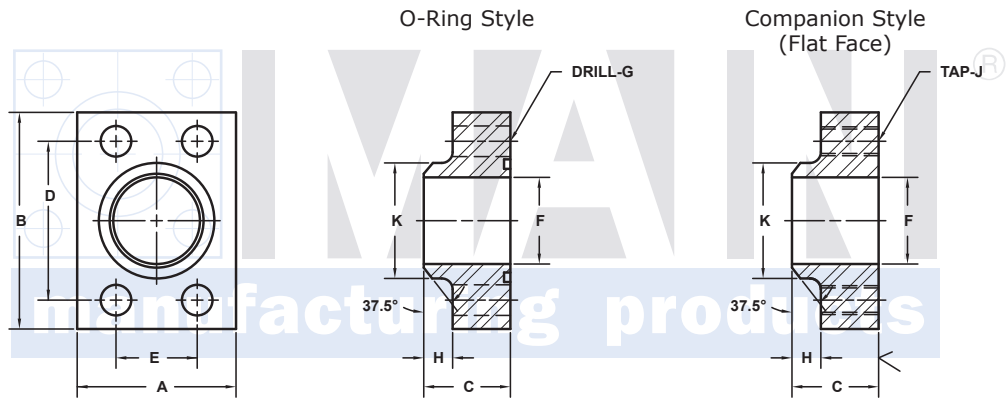
For Schedule XXS Pipe ⑥

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1121-08-08M8	1.50	2.12	1.25	1.500	.688	.25	8.5	.38	.88	MKM 512	M8 x 35	210	.8
		1122-08-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1121-12-08M10	1.75	2.62	1.25	1.875	.875	.25	10.5	.38	.88	MKM 1525	M10 x 35	214	1.1
		1122-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1121-12-12M10	1.75	2.62	1.25	1.875	.875	.44	10.5	.38	1.12	MKM 1525	M10 x 35	214	1.1
		1122-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1121-16-12M10	2.00	2.82	1.38	2.062	1.031	.44	10.5	.50	1.12	MKM 1542	M10 x 35	219	1.4
		1122-16-12M10							M10x1.5			-----	-----	---	
1	1	1121-16-16M10	2.00	2.82	1.38	2.062	1.031	.60	10.5	.50	1.38	MKM 1542	M10 x 35	219	1.4
		1122-16-16M10							M10x1.5			-----	-----	---	
1 1/4	1	1121-20-16M10†	2.50	3.19	1.38	2.312	1.188	.60	10.5	.50	1.38	MKM 4520	M10 x 35	222	2.0
		1122-20-16M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/4	1121-20-20M10†	2.50	3.19	1.38	2.312	1.188	.89	10.5	.50	1.75	MKM 4520	M10 x 35	222	1.9
		1122-20-20M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/2	-----	2.50	3.19	1.50	2.312	1.188	1.10	----	.50	2.00	-----	-----	---	2.1
		1122-20-24M10†							M10x1.5			-----	-----	---	
1 1/2	1 1/4	1121-24-20M12‡	2.75	3.75	1.50	2.750	1.406	.89	13.0	.50	1.75	MKM 4551	M12 x 40	225	2.8
		1122-24-20M12‡							M12x1.75			-----	-----	---	
1 1/2	1 1/2	1121-24-24M12‡	2.75	3.75	1.50	2.750	1.406	1.10	13.0	.50	2.00	MKM 4551	M12 x 40	225	2.7
		1122-24-24M12‡							M12x1.75			-----	-----	---	
1 1/2	2	-----	3.50	3.75	2.50	2.750	1.406	1.50	----	.75	2.50	-----	-----	---	5.9
		1122-24-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:

Low Carbon Steel



Model 1121 / 1123

Model 1122 / 1124

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1123-08-08M8	1.75	2.22	1.25	1.594	.718	.25	8.5	.38	.88	MKM 512	M8 x 35	210	.9
		1124-08-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1123-12-08M10	2.00	2.81	1.25	2.000	.937	.25	10.5	.38	.88	MKM 1525	M10 x 35	214	1.3
		1124-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1123-12-12M10	2.00	2.81	1.25	2.000	.937	.44	10.5	.38	1.12	MKM 1525	M10 x 35	214	1.3
		1124-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1123-16-12M12	2.25	3.19	1.50	2.250	1.093	.44	12.5	.50	1.12	MKM 4569	M12 x 40	219	2.0
		1124-16-12M12							M12x1.75			-----	-----	---	
1	1	1123-16-16M12	2.25	3.19	1.50	2.250	1.093	.60	12.5	.50	1.38	MKM 4569	M12 x 40	219	2.0
		1124-16-16M12							M12x1.75			-----	-----	---	
1 1/4	1	1123-20-16M12‡	2.75	3.75	1.50	2.625	1.250	.60	13.0	.50	1.38	MKM 1527	M12 x 40	222	2.8
		1124-20-16M12‡							M12x1.75			-----	-----	---	
1 1/4	1 1/4	1123-20-20M12‡	2.75	3.75	1.50	2.625	1.250	.89	13.0	.50	1.75	MKM 1527	M12 x 40	222	2.8
		1124-20-20M12‡							M12x1.75			-----	-----	---	
1 1/4	1 1/2	-----	3.00	3.75	1.75	2.625	1.250	1.10	----	.75	2.00	-----	-----	---	3.1
		1124-20-24M12‡							M12x1.75			-----	-----	---	

① Order Separately

⑥ Other Pipe and Tube Sizes are Available

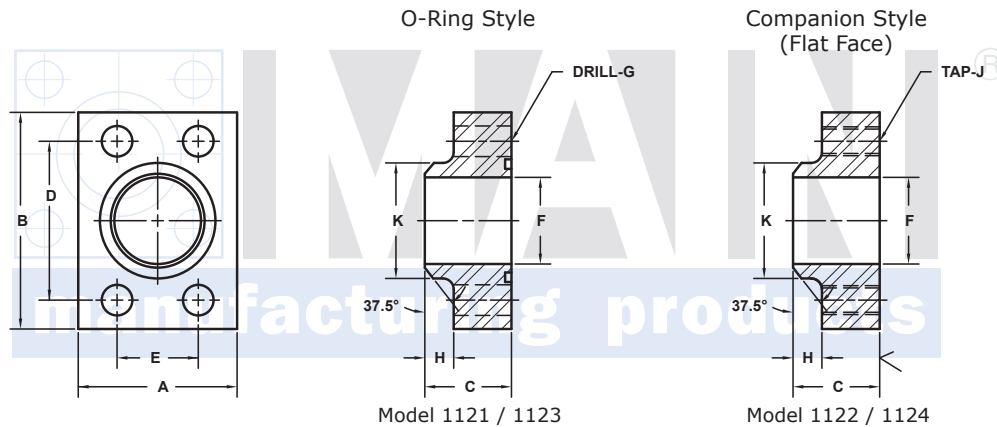
BUTT WELD IN-LINE FLANGES (Pg 2/2)

For Schedule XXS Pipe ⑥

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
2	1¼	1121-32-20M12+	3.25	4.00	1.50	3.062	1.688	.89	13.0	.50	1.75	MKM 4552	M12 x 45	228	3.5
		1122-32-20M12+							M12x1.75			-----	-----	---	
2	1½	1121-32-24M12+	3.25	4.00	1.50	3.062	1.688	1.10	13.0	.50	2.00	MKM 4552	M12 x 45	228	3.5
		1122-32-24M12+							M12x1.75			-----	-----	---	
2	2	1121-32-32M12+	3.25	4.00	1.75	3.062	1.688	1.50	13.0	.75	2.50	MKM 4552	M12 x 45	228	3.6
		1122-32-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2	1121-40-32M12+	4.00	4.50	2.00	3.500	2.000	1.50	13.0	.75	2.50	MKM 2575	M12 x 50	232	6.1
		1122-40-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2½	1121-40-40M12+	4.00	4.50	2.00	3.500	2.000	1.77	13.0	.75	3.00	MKM 2575	M12 x 50	232	6.0
		1122-40-40M12+							M12x1.75			-----	-----	---	
3 ^③	2½	1121-48-40M16	4.50	5.31	2.25	4.188	2.438	1.77	17.0	.75	3.00	MKM 585	M16 x 60	237	9.5
		1122-48-40M16							M16x2			-----	-----	---	
3 ^③	3	1121-48-48M16	4.50	5.31	2.25	4.188	2.438	2.30	17.0	.75	3.50	MKM 585	M16 x 60	237	8.8
		1122-48-48M16							M16x2			-----	-----	---	
3½ ^④	3	1121-56-48M16	5.00	6.00	1.75	4.750	2.750	2.30	17.0	.75	3.50	MKM 1571	M16 x 50	241	7.9
		1122-56-48M16							M16x2			-----	-----	---	
3½ ^④	3½	1121-56-56M16	5.00	6.00	1.75	4.750	2.750	2.73	17.0	.75	4.00	MKM 1571	M16 x 50	241	7.6
		1122-56-56M16							M16x2			-----	-----	---	
4 ^④	3	1121-64-48M16	5.50	6.38	1.75	5.125	3.062	2.30	17.0	.75	3.50	MKM 1572	M16 x 50	245	9.3
		1122-64-48M16							M16x2			-----	-----	---	
4 ^④	4	1121-64-64M16	5.50	6.38	1.75	5.125	3.062	3.15	17.0	.75	4.50	MKM 1572	M16 x 50	245	8.7
		1122-64-64M16							M16x2			-----	-----	---	

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT①			WT
									PART NO.			SCREW SIZE	O-RING		
1½	1¼	1123-24-20M16	3.25	4.50	1.50	3.125	1.437	.89	17.0	.50	1.75	MKM 562	M16 x 45	225	3.9
		1124-24-20M16							M16x2			-----	-----	---	
1½	1½	1123-24-24M16	3.25	4.50	1.50	3.125	1.437	1.10	17.0	.50	2.00	MKM 562	M16 x 45	225	3.9
		1124-24-24M16							M16x2			-----	-----	---	
1½	2	-----	4.00	4.50	2.00	3.125	1.437	1.50	-----	.75	2.50	-----	-----	---	6.0
		1124-24-32M16							M16x2			-----	-----	---	
2	1½	1123-32-24M20	4.00	5.25	1.75	3.812	1.750	1.10	21.0	.50	2.00	MKM 1548	M20 x 60	228	6.9
		1124-32-24M20							M20x2.5			-----	-----	---	
2	2	1123-32-32M20	4.00	5.25	2.00	3.812	1.750	1.50	21.0	.75	2.50	MKM 1548	M20 x 60	228	6.9
		1124-32-32M20							M20x2.5			-----	-----	---	
2½	2	1123-40-32M24	5.00	6.88	2.50	4.875	2.312	1.50	25.5	.75	2.50	MKM 1575	M24 x 70	232	15.8
		1124-40-32M24							M24x3			-----	-----	---	
2½	2½	1123-40-40M24	5.00	6.88	2.50	4.875	2.312	1.77	25.5	.75	3.00	MKM 1575	M24 x 70	232	15.7
		1124-40-40M24							M24x3			-----	-----	---	
3	3	1123-48-48M30	6.00	8.50	3.00	6.000	2.812	2.30	32.0	.88	3.50	MKM 1576	M30 x 100	237	27.4
		1124-48-48M30							M30x3.5			-----	-----	---	

① Order Separately ② 2500 PSI Max ③ 2000 PSI Max ④ 500 PSI Max

⑥ Other Pipe and Tube Sizes are Available

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. + Also Available for M12 Bolts + Also Available for M14 Bolts

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BUTT WELD ELBOW FLANGES (Pg 1/2)

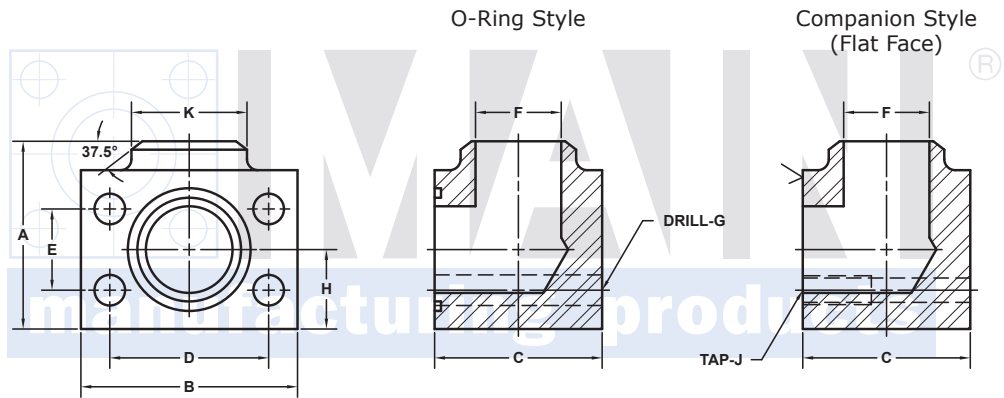
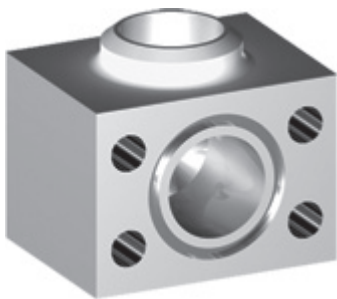
For Schedule 40 Pipe ®

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1133-08-08M8	2.00	2.12	1.44	1.500	.688	.62	8.5	.75	.88	MKM 541	M8 x 50	210	1.3
		1134-08-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1133-12-08M10	2.25	2.62	1.70	1.875	.875	.62	10.5	.88	.88	MKM 542	M10 x 60	214	2.1
		1134-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1133-12-12M10	2.25	2.62	1.70	1.875	.875	.82	10.5	.88	1.12	MKM 542	M10 x 60	214	2.1
		1134-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1133-16-12M10	2.50	2.82	1.94	2.062	1.031	.82	10.5	1.00	1.12	MKM 543	M10 x 65	219	2.8
		1134-16-12M10							M10x1.5			-----	-----	---	
1	1	1133-16-16M10	2.50	2.82	1.94	2.062	1.031	1.04	10.5	1.00	1.38	MKM 543	M10 x 65	219	2.8
		1134-16-16M10							M10x1.5			-----	-----	---	
1 1/4	1	1133-20-16M10†	3.00	3.19	2.40	2.312	1.188	1.04	10.5	1.25	1.38	MKM 4532	M10 x 75	222	4.8
		1134-20-16M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/4	1133-20-20M10†	3.00	3.19	2.40	2.312	1.188	1.38	10.5	1.25	1.75	MKM 4532	M10 x 75	222	4.7
		1134-20-20M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/2	1133-20-24M10†	3.00	3.19	3.00	2.312	1.188	1.61	10.5	1.25	2.00	MKM 4597	M10 x 90	222	5.7
		1134-20-24M10†							M10x1.5			-----	-----	---	
1 1/2	1 1/4	1133-24-20M12‡	3.25	3.75	2.90	2.750	1.406	1.38	13.0	1.38	1.75	MKM 4533	M12 x 90	225	6.8
		1134-24-20M12‡							M12x1.75			-----	-----	---	
1 1/2	1 1/2	1133-24-24M12‡	3.25	3.75	2.90	2.750	1.406	1.61	13.0	1.38	2.00	MKM 4533	M12 x 90	225	6.7
		1134-24-24M12‡							M12x1.75			-----	-----	---	
1 1/2	2	1133-24-32M12‡	3.50	3.75	3.50	2.750	1.406	2.06	13.0	1.38	2.50	MKM 3521	M12 x 100	225	9.1
		1134-24-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:

Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1135-08-08M8	2.25	2.22	1.46	1.594	.718	.62	8.5	.88	.88	MKM 541	M8 x 50	210	1.5
		1136-08-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1135-12-08M10	2.50	2.81	1.70	2.000	.937	.62	10.5	1.00	.88	MKM 542	M10 x 60	214	2.6
		1136-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1135-12-12M10	2.50	2.81	1.70	2.000	.937	.82	10.5	1.00	1.12	MKM 542	M10 x 60	214	2.5
		1136-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1135-16-12M12	2.75	3.19	2.21	2.250	1.093	.82	12.5	1.12	1.12	MKM 2533	M12 x 75	219	4.1
		1136-16-12M12							M12x1.75			-----	-----	---	
1	1	1135-16-16M12	2.75	3.19	2.21	2.250	1.093	1.04	12.5	1.12	1.38	MKM 2533	M12 x 75	219	4.0
		1136-16-16M12							M12x1.75			-----	-----	---	
1 1/4	1	1135-20-16M12‡	3.25	3.75	2.44	2.625	1.250	1.04	13.0	1.38	1.38	MKM 578	M12 x 80	222	6.3
		1136-20-16M12‡							M12x1.75			-----	-----	---	
1 1/4	1 1/4	1135-20-20M12‡	3.25	3.75	2.44	2.625	1.250	1.38	13.0	1.38	1.75	MKM 578	M12 x 80	222	6.1
		1136-20-20M12‡							M12x1.75			-----	-----	---	

① Order Separately

® Schedules 80, 160 and XXS also Stocked. Other Pipe and Tube Sizes are Available

42 NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

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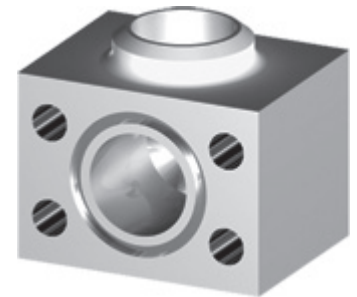
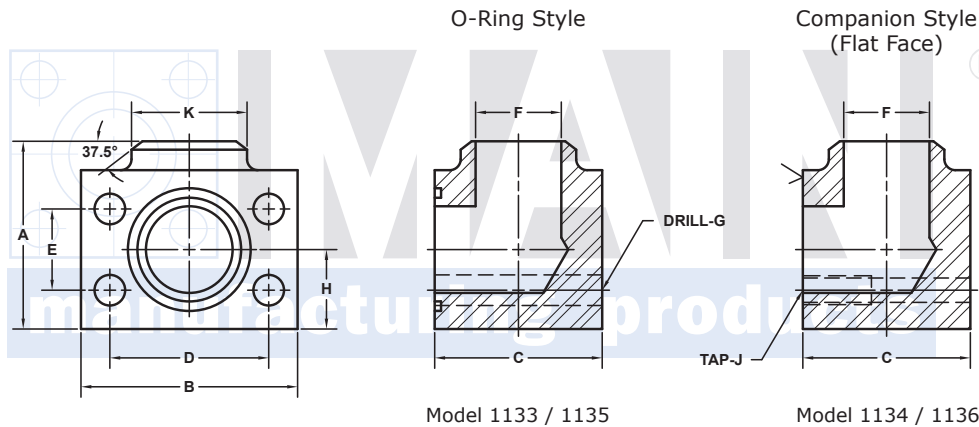
BUTT WELD ELBOW FLANGES (Pg 2/2)

For Schedule 40 Pipe ®

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
2	1¼	1133-32-20M12+	3.75	4.00	3.40	3.062	1.688	1.38	13.0	1.62	1.75	MKM 4534	M12 x 100	228	9.9
		1134-32-20M12+							M12x1.75			-----	-----	---	
2	1½	1133-32-24M12+	3.75	4.00	3.40	3.062	1.688	1.61	13.0	1.62	2.00	MKM 4534	M12 x 100	228	9.7
		1134-32-24M12+							M12x1.75			-----	-----	---	
2	2	1133-32-32M12+	3.75	4.00	3.40	3.062	1.688	2.06	13.0	1.62	2.50	MKM 4534	M12 x 100	228	9.2
		1134-32-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2	1133-40-32M12+	4.50	4.50	3.96	3.500	2.000	2.06	13.0	2.00	2.50	MKM 4535	M12 x 120	232	15.1
		1134-40-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2½	1133-40-40M12+	4.50	4.50	3.96	3.500	2.000	2.47	13.0	2.00	3.00	MKM 4535	M12 x 120	232	14.5
		1134-40-40M12+							M12x1.75			-----	-----	---	
3 ^③	2½	1133-48-40M16	5.00	5.31	4.96	4.188	2.438	2.47	17.0	2.25	3.00	MKM 548	M16 x 150	237	24.6
		1134-48-40M16							M16x2			-----	-----	---	
3 ^③	3	1133-48-48M16	5.00	5.31	4.96	4.188	2.438	3.06	17.0	2.25	3.50	MKM 548	M16 x 150	237	23.1
		1134-48-48M16							M16x2			-----	-----	---	
3½ ^④	3	1133-56-48M16	5.50	6.00	5.40	4.750	2.750	3.06	17.0	2.50	3.50	MKM 549	M16 x 160	241	32.2
		1134-56-48M16							M16x2			-----	-----	---	
3½ ^④	3½	1133-56-56M16	5.50	6.00	5.40	4.750	2.750	3.54	17.0	2.50	4.00	MKM 549	M16 x 160	241	30.7
		1134-56-56M16							M16x2			-----	-----	---	
4 ^④	3	1133-64-48M16	6.00	6.38	5.96	5.125	3.062	3.06	17.0	2.75	3.50	MKM 550	M16 x 180	245	41.4
		1134-64-48M16							M16x2			-----	-----	---	
4 ^④	4	1133-64-64M16	6.00	6.38	5.96	5.125	3.062	4.02	17.0	2.75	4.50	MKM 550	M16 x 180	245	38.0
		1134-64-64M16							M16x2			-----	-----	---	

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1½	1¼	1135-24-20M16	3.75	4.50	2.96	3.125	1.437	1.38	17.0	1.62	1.75	MKM 553	M16 x 100	225	10.6
		1136-24-20M16							M16x2			-----	-----	---	
1½	1½	1135-24-24M16	3.75	4.50	2.96	3.125	1.437	1.61	17.0	1.62	2.00	MKM 553	M16 x 100	225	10.0
		1136-24-24M16							M16x2			-----	-----	---	
2	1½	1135-32-24M20	4.50	5.25	3.46	3.812	1.750	1.61	21.0	2.00	2.00	MKM 554	3/4-10 x 120	228	16.8
		1136-32-24M20							M20x2.5			-----	-----	---	
2	2	1135-32-32M20	4.50	5.25	3.46	3.812	1.750	2.06	21.0	2.00	2.50	MKM 554	3/4-10 x 120	228	16.2
		1136-32-32M20							M20x2.5			-----	-----	---	
2½	2	1135-40-32M24	5.50	6.88	4.50	4.875	2.312	2.06	25.5	2.50	2.50	MKM 2557	M24 x 150	232	36.3
		1136-40-32M24							M24x3			-----	-----	---	
2½	2½	1135-40-40M24	5.50	6.88	4.50	4.875	2.312	2.47	25.5	2.50	3.00	MKM 2557	M24 x 150	232	35.4
		1136-40-40M24							M24x3			-----	-----	---	
3	3	1135-48-48M30	6.50	8.50	5.00	6.000	2.812	3.06	32.0	3.00	3.50	MKM 556	M30 x 180	237	57.2
		1136-48-48M30							M30x3.5			-----	-----	---	

① Order Separately ② 2500 PSI Max ③ 2000 PSI Max ④ 500 PSI Max

® Schedules 80, 160 and XXS also Stocked. Other Pipe and Tube Sizes are Available

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

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BUTT WELD ELBOW FLANGES (Pg 1/2)

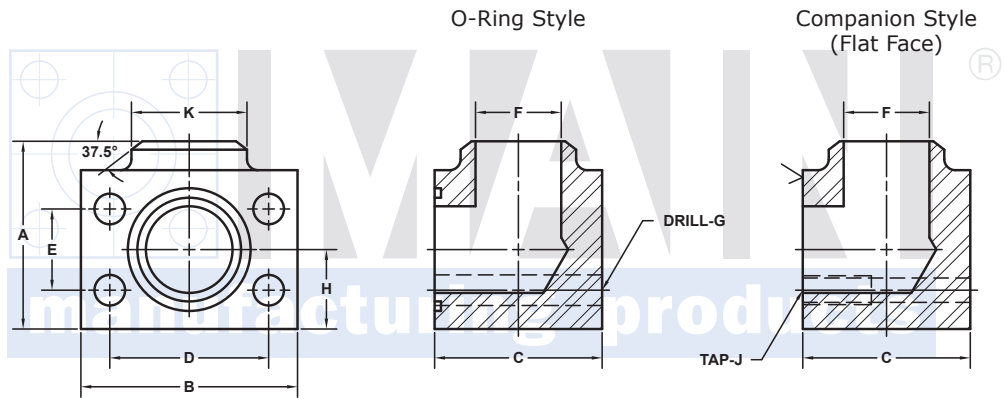
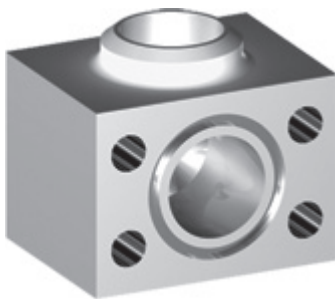
For Schedule 80 Pipe ®

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1137-08-08M8	2.00	2.12	1.44	1.500	.688	.53	8.5	.75	.88	MKM 541	M8 x 50	210	1.3
		1138-08-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1137-12-08M10	2.25	2.62	1.70	1.875	.875	.53	10.5	.88	.88	MKM 542	M10 x 60	214	2.1
		1138-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1137-12-12M10	2.25	2.62	1.70	1.875	.875	.73	10.5	.88	1.12	MKM 542	M10 x 60	214	2.0
		1138-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1137-16-12M10	2.50	2.82	1.94	2.062	1.031	.73	10.5	1.00	1.12	MKM 543	M10 x 65	219	2.8
		1138-16-12M10							M10x1.5			-----	-----	---	
1	1	1137-16-16M10	2.50	2.82	1.94	2.062	1.031	.94	10.5	1.00	1.38	MKM 543	M10 x 65	219	2.8
		1138-16-16M10							M10x1.5			-----	-----	---	
1 1/4	1	1137-20-16M10†	3.00	3.19	2.40	2.312	1.188	.94	10.5	1.25	1.38	MKM 4532	M10 x 75	222	4.8
		1138-20-16M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/4	1137-20-20M10†	3.00	3.19	2.40	2.312	1.188	1.23	10.5	1.25	1.75	MKM 4532	M10 x 75	222	4.6
		1138-20-20M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/2	1137-20-24M10†	3.00	3.19	3.00	2.312	1.188	1.48	10.5	1.25	2.00	MKM 4597	M10 x 90	222	5.5
		1138-20-24M10†							M10x1.5			-----	-----	---	
1 1/2	1 1/4	1137-24-20M12‡	3.25	3.75	2.90	2.750	1.406	1.23	13.0	1.38	1.75	MKM 4533	M12 x 90	225	7.0
		1138-24-20M12‡							M12x1.75			-----	-----	---	
1 1/2	1 1/2	1137-24-24M12‡	3.25	3.75	2.90	2.750	1.406	1.48	13.0	1.38	2.00	MKM 4533	M12 x 90	225	6.8
		1138-24-24M12‡							M12x1.75			-----	-----	---	
1 1/2	2	1137-24-32M12‡	3.50	3.75	3.50	2.750	1.406	1.94	13.0	1.38	2.50	MKM 3521	M12 x 100	225	9.1
		1138-24-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:

Low Carbon Steel



Model 1137 / 1139

Model 1138 / 1140

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1139-08-08M8	2.25	2.22	1.46	1.594	.718	.53	8.5	.88	.88	MKM 541	M8 x 50	210	1.6
		1140-08-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1139-12-08M10	2.50	2.81	1.70	2.000	.937	.53	10.5	1.00	.88	MKM 542	M10 x 60	214	2.6
		1140-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1139-12-12M10	2.50	2.81	1.70	2.000	.937	.73	10.5	1.00	1.12	MKM 542	M10 x 60	214	2.5
		1140-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1139-16-12M12	2.75	3.19	2.21	2.250	1.093	.73	12.5	1.12	1.12	MKM 2533	M12 x 75	219	4.1
		1140-16-12M12							M12x1.75			-----	-----	---	
1	1	1139-16-16M12	2.75	3.19	2.21	2.250	1.093	.94	12.5	1.12	1.38	MKM 2533	M12 x 75	219	4.1
		1140-16-16M12							M12x1.75			-----	-----	---	
1 1/4	1	1139-20-16M12‡	3.25	3.75	2.44	2.625	1.250	.94	13.0	1.38	1.38	MKM 578	M12 x 80	222	6.4
		1140-20-16M12‡							M12x1.75			-----	-----	---	
1 1/4	1 1/4	1139-20-20M12‡	3.25	3.75	2.44	2.625	1.250	1.23	13.0	1.38	1.75	MKM 578	M12 x 80	222	6.2
		1140-20-20M12‡							M12x1.75			-----	-----	---	

① Order Separately

® Schedules 40, 160 and XXS also Stocked. Other Pipe and Tube Sizes are Available

44 NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

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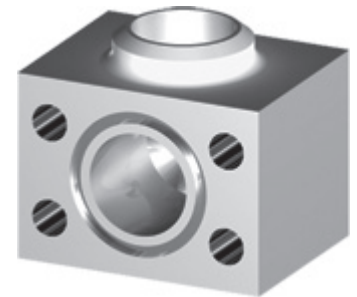
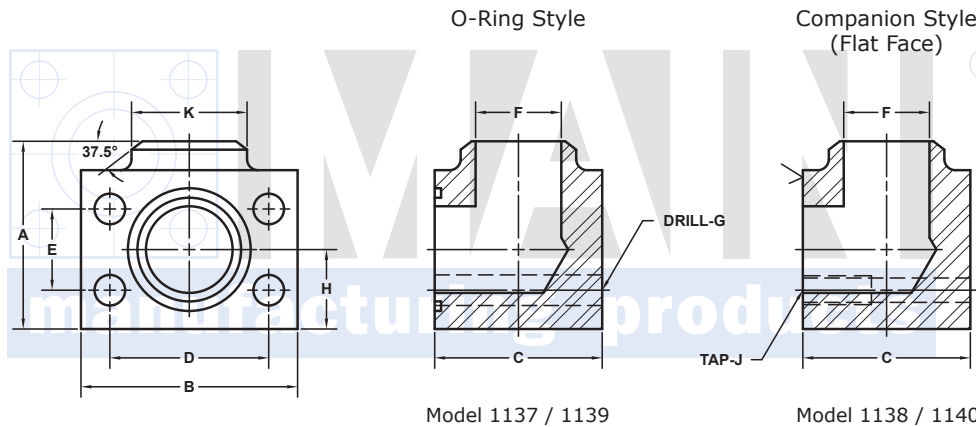
BUTT WELD ELBOW FLANGES (Pg 2/2)

For Schedule 80 Pipe ®

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
2	1¼	1137-32-20M12+	3.75	4.00	3.40	3.062	1.688	1.23	13.0	1.62	1.75	MKM 4534	M12 x 100	228	10.1
		1138-32-20M12+							M12x1.75			-----	-----	---	
2	1½	1137-32-24M12+	3.75	4.00	3.40	3.062	1.688	1.48	13.0	1.62	2.00	MKM 4534	M12 x 100	228	9.9
		1138-32-24M12+							M12x1.75			-----	-----	---	
2	2	1137-32-32M12+	3.75	4.00	3.40	3.062	1.688	1.94	13.0	1.62	2.50	MKM 4534	M12 x 100	228	9.4
		1138-32-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2	1137-40-32M12+	4.50	4.50	3.96	3.500	2.000	1.94	13.0	2.00	2.50	MKM 4535	M12 x 120	232	15.4
		1138-40-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2½	1137-40-40M12+	4.50	4.50	3.96	3.500	2.000	2.32	13.0	2.00	3.00	MKM 4535	M12 x 120	232	14.8
		1138-40-40M12+							M12x1.75			-----	-----	---	
3 ^③	2½	1137-48-40M16	5.00	5.31	4.96	4.188	2.438	2.32	17.0	2.25	3.00	MKM 548	M16 x 150	237	24.9
		1138-48-40M16							M16x2			-----	-----	---	
3 ^③	3	1137-48-48M16	5.00	5.31	4.96	4.188	2.438	2.90	17.0	2.25	3.50	MKM 548	M16 x 150	237	23.6
		1138-48-48M16							M16x2			-----	-----	---	
3½ ^④	3	1137-56-48M16	5.50	6.00	5.40	4.750	2.750	2.90	17.0	2.50	3.50	MKM 549	M16 x 160	241	32.8
		1138-56-48M16							M16x2			-----	-----	---	
3½ ^④	3½	1137-56-56M16	5.50	6.00	5.40	4.750	2.750	3.36	17.0	2.50	4.00	MKM 549	M16 x 160	241	31.5
		1138-56-56M16							M16x2			-----	-----	---	
4 ^④	3	1137-64-48M16	6.00	6.38	5.96	5.125	3.062	2.90	17.0	2.75	3.50	MKM 550	M16 x 180	245	42.0
		1138-64-48M16							M16x2			-----	-----	---	
4 ^④	4	1137-64-64M16	6.00	6.38	5.96	5.125	3.062	3.83	17.0	2.75	4.50	MKM 550	M16 x 180	245	38.8
		1138-64-64M16							M16x2			-----	-----	---	

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1½	1¼	1139-24-20M16	3.75	4.50	2.96	3.125	1.437	1.23	17.0	1.62	1.75	MKM 553	M16 x 100	225	10.4
		1140-24-20M16							M16x2			-----	-----	---	
1½	1½	1139-24-24M16	3.75	4.50	2.96	3.125	1.437	1.48	17.0	1.62	2.00	MKM 553	M16 x 100	225	10.2
		1140-24-24M16							M16x2			-----	-----	---	
2	1½	1139-32-24M20	4.50	5.25	3.46	3.812	1.750	1.48	21.0	2.00	2.00	MKM 554	3/4-10 x 120	228	17.0
		1140-32-24M20							M20x2.5			-----	-----	---	
2	2	1139-32-32M20	4.50	5.25	3.46	3.812	1.750	1.94	21.0	2.00	2.50	MKM 554	3/4-10 x 120	228	16.4
		1140-32-32M20							M20x2.5			-----	-----	---	
2½	2	1139-40-32M24	5.50	6.88	4.50	4.875	2.312	1.94	25.5	2.50	2.50	MKM 2557	M24 x 150	232	36.6
		1140-40-32M24							M24x3			-----	-----	---	
2½	2½	1139-40-40M24	5.50	6.88	4.50	4.875	2.312	2.32	25.5	2.50	3.00	MKM 2557	M24 x 150	232	35.8
		1140-40-40M24							M24x3			-----	-----	---	
3	3	1139-48-48M30	6.50	8.50	5.00	6.000	2.812	2.90	32.0	3.00	3.50	MKM 556	M30 x 180	237	58.0
		1140-48-48M30							M30x3.5			-----	-----	---	

① Order Separately ② 2500 PSI Max ③ 2000 PSI Max ④ 500 PSI Max

® Schedules 40, 160 and XXS also Stocked. Other Pipe and Tube Sizes are Available

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

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BUTT WELD ELBOW FLANGES (Pg 1/2)

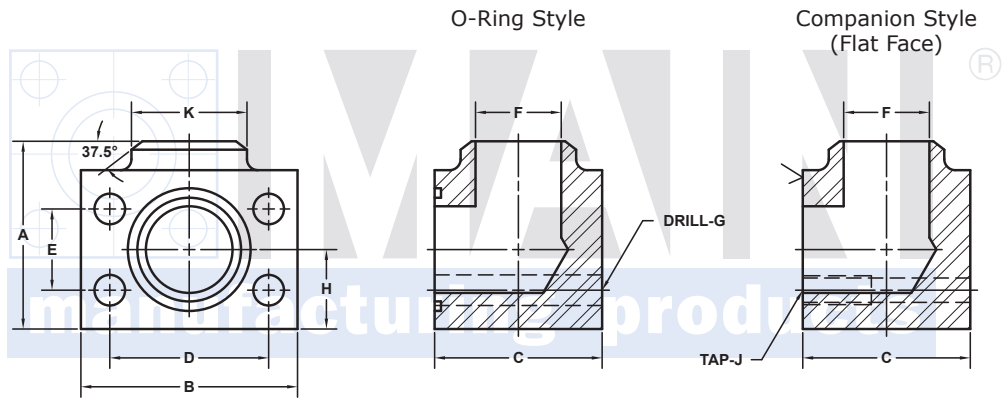
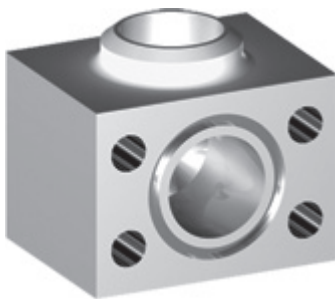
For Schedule 160 Pipe ⑥

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1141-08-08M8	2.00	2.12	1.44	1.500	.688	.47	8.5	.75	.88	MKM 541	M8 x 50	210	1.3
		1142-08-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1141-12-08M10	2.25	2.62	1.70	1.875	.875	.47	10.5	.88	.88	MKM 542	M10 x 60	214	2.1
		1142-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1141-12-12M10	2.25	2.62	1.70	1.875	.875	.61	10.5	.88	1.12	MKM 542	M10 x 60	214	2.1
		1142-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1141-16-12M10	2.50	2.82	1.94	2.062	1.031	.61	10.5	1.00	1.12	MKM 543	M10 x 65	219	2.9
		1142-16-12M10							M10x1.5			-----	-----	---	
1	1	1141-16-16M10	2.50	2.82	1.94	2.062	1.031	.81	10.5	1.00	1.38	MKM 543	M10 x 65	219	2.8
		1142-16-16M10							M10x1.5			-----	-----	---	
1 1/4	1	1141-20-16M10†	3.00	3.19	2.40	2.312	1.188	.81	10.5	1.25	1.38	MKM 4532	M10 x 75	222	4.8
		1142-20-16M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/4	1141-20-20M10†	3.00	3.19	2.40	2.312	1.188	1.16	10.5	1.25	1.75	MKM 4532	M10 x 75	222	4.7
		1142-20-20M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/2	1141-20-24M10†	3.00	3.19	3.00	2.312	1.188	1.34	10.5	1.25	2.00	MKM 4597	M10 x 90	222	5.6
		1142-20-24M10†							M10x1.5			-----	-----	---	
1 1/2	1 1/4	1141-24-20M12‡	3.25	3.75	2.90	2.750	1.406	1.16	13.0	1.38	1.75	MKM 4533	M12 x 90	225	7.1
		1142-24-20M12‡							M12x1.75			-----	-----	---	
1 1/2	1 1/2	1141-24-24M12‡	3.25	3.75	2.90	2.750	1.406	1.34	13.0	1.38	2.00	MKM 4533	M12 x 90	225	6.9
		1142-24-24M12‡							M12x1.75			-----	-----	---	
1 1/2	2	1141-24-32M12‡	3.50	3.75	3.50	2.750	1.406	1.69	13.0	1.38	2.50	MKM 3521	M12 x 100	225	9.2
		1142-24-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:

Low Carbon Steel



Model 1141 / 1143

Model 1142 / 1144

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1143-08-08M8	2.25	2.22	1.46	1.594	.718	.47	8.5	.88	.88	MKM 541	M8 x 50	210	1.6
		1144-08-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1143-12-08M10	2.50	2.81	1.70	2.000	.937	.47	10.5	1.00	.88	MKM 542	M10 x 60	214	2.6
		1144-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1143-12-12M10	2.50	2.81	1.70	2.000	.937	.61	10.5	1.00	1.12	MKM 542	M10 x 60	214	2.6
		1144-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1143-16-12M12	2.75	3.19	2.21	2.250	1.093	.61	12.5	1.12	1.12	MKM 2533	M12 x 75	219	4.2
		1144-16-12M12							M12x1.75			-----	-----	---	
1	1	1143-16-16M12	2.75	3.19	2.21	2.250	1.093	.81	12.5	1.12	1.38	MKM 2533	M12 x 75	219	4.1
		1144-16-16M12							M12x1.75			-----	-----	---	
1 1/4	1	1143-20-16M12‡	3.25	3.75	2.44	2.625	1.250	.81	13.0	1.38	1.38	MKM 578	M12 x 80	222	6.5
		1144-20-16M12‡							M12x1.75			-----	-----	---	
1 1/4	1 1/4	1143-20-20M12‡	3.25	3.75	2.44	2.625	1.250	1.16	13.0	1.38	1.75	MKM 578	M12 x 80	222	6.3
		1144-20-20M12‡							M12x1.75			-----	-----	---	

① Order Separately

⑥ Schedules 40, 80 and XXS also Stocked. Other Pipe and Tube Sizes are Available

46 NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

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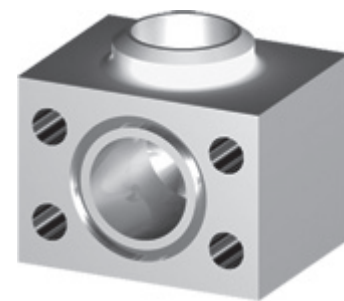
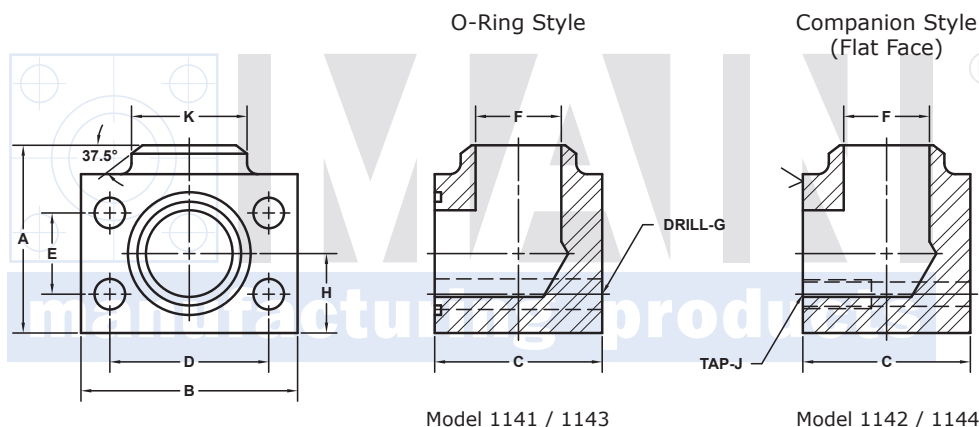
BUTT WELD ELBOW FLANGES (Pg 2/2)

For Schedule 160 Pipe ®

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
2	1¼	1141-32-20M12+	3.75	4.00	3.40	3.062	1.688	1.16	13.0	1.62	1.75	MKM 4534	M12 x 100	228	10.1
		1142-32-20M12+							M12x1.75			-----	-----	---	
2	1½	1141-32-24M12+	3.75	4.00	3.40	3.062	1.688	1.34	13.0	1.62	2.00	MKM 4534	M12 x 100	228	10.0
		1142-32-24M12+							M12x1.75			-----	-----	---	
2	2	1141-32-32M12+	3.75	4.00	3.40	3.062	1.688	1.69	13.0	1.62	2.50	MKM 4534	M12 x 100	228	9.8
		1142-32-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2	1141-40-32M12+	4.50	4.50	3.96	3.500	2.000	1.69	13.0	2.00	2.50	MKM 4535	M12 x 120	232	15.8
		1142-40-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2½	1141-40-40M12+	4.50	4.50	3.96	3.500	2.000	2.12	13.0	2.00	3.00	MKM 4535	M12 x 120	232	15.2
		1142-40-40M12+							M12x1.75			-----	-----	---	
3 ^③	2½	1141-48-40M16	5.00	5.31	4.96	4.188	2.438	2.12	17.0	2.25	3.00	MKM 548	M16 x 150	237	25.4
		1142-48-40M16							M16x2			-----	-----	---	
3 ^③	3	1141-48-48M16	5.00	5.31	4.96	4.188	2.438	2.62	17.0	2.25	3.50	MKM 548	M16 x 150	237	24.4
		1142-48-48M16							M16x2			-----	-----	---	
3½ ^④	3	1141-56-48M16	5.50	6.00	5.40	4.750	2.750	2.62	17.0	2.50	3.50	MKM 549	M16 x 160	241	33.6
		1142-56-48M16							M16x2			-----	-----	---	
3½ ^④	3½	1141-56-56M16	5.50	6.00	5.40	4.750	2.750	3.00	17.0	2.50	4.00	MKM 549	M16 x 160	241	32.7
		1142-56-56M16							M16x2			-----	-----	---	
4 ^④	3	1141-64-48M16	6.00	6.38	5.96	5.125	3.062	2.62	17.0	2.75	3.50	MKM 550	M16 x 180	245	42.9
		1142-64-48M16							M16x2			-----	-----	---	
4 ^④	4	1141-64-64M16	6.00	6.38	5.96	5.125	3.062	3.44	17.0	2.75	4.50	MKM 550	M16 x 180	245	40.4
		1142-64-64M16							M16x2			-----	-----	---	

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT①			WT
									PART NO.			SCREW SIZE	O-RING		
1½	1¼	1143-24-20M16	3.75	4.50	2.96	3.125	1.437	1.16	17.0	1.62	1.75	MKM 553	M16 x 100	225	10.4
		1144-24-20M16							M16x2			-----	-----	---	
1½	1½	1143-24-24M16	3.75	4.50	2.96	3.125	1.437	1.34	17.0	1.62	2.00	MKM 553	M16 x 100	225	10.8
		1144-24-24M16							M16x2			-----	-----	---	
2	1½	1143-32-24M20	4.50	5.25	3.46	3.812	1.750	1.34	21.0	2.00	2.00	MKM 554	3/4-10 x 120	228	17.8
		1144-32-24M20							M20x2.5			-----	-----	---	
2	2	1143-32-32M20	4.50	5.25	3.46	3.812	1.750	1.69	21.0	2.00	2.50	MKM 554	3/4-10 x 120	228	16.8
		1144-32-32M20							M20x2.5			-----	-----	---	
2½	2	1143-40-32M24	5.50	6.88	4.50	4.875	2.312	1.69	25.5	2.50	2.50	MKM 2557	M24 x 150	232	36.6
		1144-40-32M24							M24x3			-----	-----	---	
2½	2½	1143-40-40M24	5.50	6.88	4.50	4.875	2.312	2.12	25.5	2.50	3.00	MKM 2557	M24 x 150	232	36.3
		1144-40-40M24							M24x3			-----	-----	---	
3	3	1143-48-48M30	6.50	8.50	5.00	6.000	2.812	2.62	32.0	3.00	3.50	MKM 556	M30 x 180	237	59.0
		1144-48-48M30							M30x3.5			-----	-----	---	

① Order Separately ② 2500 PSI Max ③ 2000 PSI Max ④ 500 PSI Max

® Schedules 40, 80 and XXS also Stocked. Other Pipe and Tube Sizes are Available

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

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BUTT WELD ELBOW FLANGES (Pg 1/2)

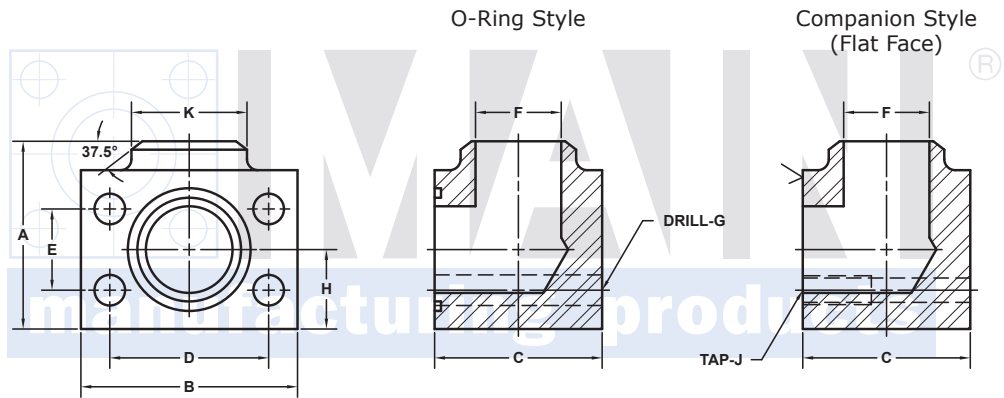
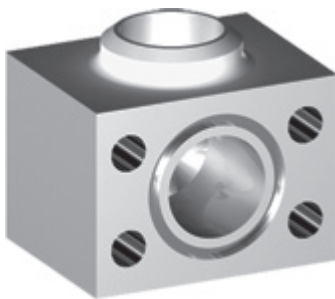
For Schedule XXS Pipe ⑥

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1145-08-08M8	2.00	2.12	1.44	1.500	.688	.25	8.5	.75	.88	MKM 541	M8 x 50	210	1.3
		1146-08-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1145-12-08M10	2.25	2.62	1.70	1.875	.875	.25	10.5	.88	.88	MKM 542	M10 x 60	214	2.1
		1146-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1145-12-12M10	2.25	2.62	1.70	1.875	.875	.44	10.5	.88	1.12	MKM 542	M10 x 60	214	2.1
		1146-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1145-16-12M10	2.50	2.82	1.94	2.062	1.031	.44	10.5	1.00	1.12	MKM 543	M10 x 65	219	2.9
		1146-16-12M10							M10x1.5			-----	-----	---	
1	1	1145-16-16M10	2.50	2.82	1.94	2.062	1.031	.60	10.5	1.00	1.38	MKM 543	M10 x 65	219	2.8
		1146-16-16M10							M10x1.5			-----	-----	---	
1 1/4	1	1145-20-16M10†	3.00	3.19	2.40	2.312	1.188	.60	10.5	1.25	1.38	MKM 4532	M10 x 75	222	4.8
		1146-20-16M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/4	1145-20-20M10†	3.00	3.19	2.40	2.312	1.188	.89	10.5	1.25	1.75	MKM 4532	M10 x 75	222	4.7
		1146-20-20M10†							M10x1.5			-----	-----	---	
1 1/4	1 1/2	1145-20-24M10†	3.00	3.19	3.00	2.312	1.188	1.10	10.5	1.25	2.00	MKM 4597	M10 x 90	222	5.8
		1146-20-24M10†							M10x1.5			-----	-----	---	
1 1/2	1 1/4	1145-24-20M12‡	3.25	3.75	2.90	2.750	1.406	.89	13.0	1.38	1.75	MKM 4533	M12 x 90	225	7.2
		1146-24-20M12‡							M12x1.75			-----	-----	---	
1 1/2	1 1/2	1145-24-24M12‡	3.25	3.75	2.90	2.750	1.406	1.10	13.0	1.38	2.00	MKM 4533	M12 x 90	225	7.1
		1146-24-24M12‡							M12x1.75			-----	-----	---	
1 1/2	2	1145-24-32M12‡	3.50	3.75	3.50	2.750	1.406	1.50	13.0	1.38	2.50	MKM 3521	M12 x 100	225	9.2
		1146-24-32M12‡							M12x1.75			-----	-----	---	

MATERIAL:

Low Carbon Steel



Model 1145 / 1147

Model 1146 / 1148

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1147-08-08M8	2.25	2.22	1.46	1.594	.718	.25	8.5	.88	.88	MKM 541	M8 x 50	210	1.6
		1148-08-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1147-12-08M10	2.50	2.81	1.70	2.000	.937	.25	10.5	1.00	.88	MKM 542	M10 x 60	214	2.6
		1148-12-08M10							M10x1.5			-----	-----	---	
3/4	3/4	1147-12-12M10	2.50	2.81	1.70	2.000	.937	.44	10.5	1.00	1.12	MKM 542	M10 x 60	214	2.6
		1148-12-12M10							M10x1.5			-----	-----	---	
1	3/4	1147-16-12M12	2.75	3.19	2.21	2.250	1.093	.44	12.5	1.12	1.12	MKM 2533	M12 x 75	219	4.0
		1148-16-12M12							M12x1.75			-----	-----	---	
1	1	1147-16-16M12	2.75	3.19	2.21	2.250	1.093	.60	12.5	1.12	1.38	MKM 2533	M12 x 75	219	4.0
		1148-16-16M12							M12x1.75			-----	-----	---	
1 1/4	1	1147-20-16M12‡	3.25	3.75	2.44	2.625	1.250	.60	13.0	1.38	1.38	MKM 578	M12 x 80	222	6.3
		1148-20-16M12‡							M12x1.75			-----	-----	---	
1 1/4	1 1/4	1147-20-20M12‡	3.25	3.75	2.44	2.625	1.250	.89	13.0	1.38	1.75	MKM 578	M12 x 80	222	6.3
		1148-20-20M12‡							M12x1.75			-----	-----	---	

① Order Separately

⑥ Schedules 40, 80 and 160 also Stocked. Other Pipe and Tube Sizes are Available

48 NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

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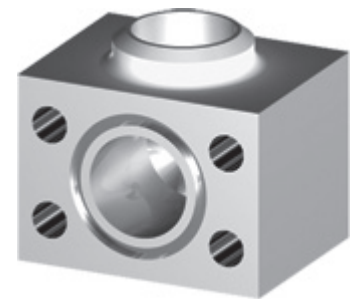
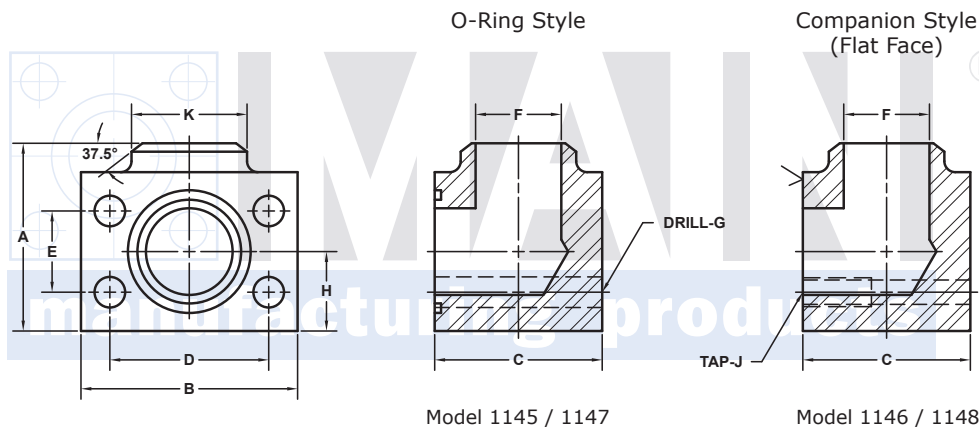
BUTT WELD ELBOW FLANGES (Pg 2/2)

For Schedule XXS Pipe ®

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
2	1¼	1145-32-20M12+	3.75	4.00	3.40	3.062	1.688	.89	13.0	1.62	1.75	MKM 4534	M12 x 100	228	10.4
		1146-32-20M12+							M12x1.75			-----	-----	---	
2	1½	1145-32-24M12+	3.75	4.00	3.40	3.062	1.688	1.10	13.0	1.62	2.00	MKM 4534	M12 x 100	228	10.2
		1146-32-24M12+							M12x1.75			-----	-----	---	
2	2	1145-32-32M12+	4.00	4.00	3.40	3.062	1.688	1.50	13.0	1.62	2.50	MKM 4534	M12 x 100	228	10.2
		1146-32-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2	1145-40-32M12+	4.75	4.50	3.96	3.500	2.000	1.50	13.0	2.00	2.50	MKM 4535	M12 x 120	232	16.3
		1146-40-32M12+							M12x1.75			-----	-----	---	
2½ ^②	2½	1145-40-40M12+	4.75	4.50	3.96	3.500	2.000	1.77	13.0	2.00	3.00	MKM 4535	M12 x 120	232	16.1
		1146-40-40M12+							M12x1.75			-----	-----	---	
3 ^③	2½	1145-48-40M16	5.25	5.31	4.96	4.188	2.438	1.77	17.0	2.25	3.00	MKM 548	M16 x 150	237	26.3
		1146-48-40M16							M16x2			-----	-----	---	
3 ^③	3	1145-48-48M16	5.25	5.31	4.96	4.188	2.438	2.30	17.0	2.25	3.50	MKM 548	M16 x 150	237	25.5
		1146-48-48M16							M16x2			-----	-----	---	
3½ ^④	3	1145-56-48M16	5.75	6.00	5.40	4.750	2.750	2.30	17.0	2.50	3.50	MKM 549	M16 x 160	241	34.8
		1146-56-48M16							M16x2			-----	-----	---	
3½ ^④	3½	1145-56-56M16	5.75	6.00	5.40	4.750	2.750	2.73	17.0	2.50	4.00	MKM 549	M16 x 160	241	33.9
		1146-56-56M16							M16x2			-----	-----	---	
4 ^④	3	1145-64-48M16	6.25	6.38	5.96	5.125	3.062	2.30	17.0	2.75	3.50	MKM 550	M16 x 180	245	44.2
		1146-64-48M16							M16x2			-----	-----	---	
4 ^④	4	1145-64-64M16	6.25	6.38	5.96	5.125	3.062	3.15	17.0	2.75	4.50	MKM 550	M16 x 180	245	42.0
		1146-64-64M16							M16x2			-----	-----	---	

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1½	1¼	1147-24-20M16	4.00	4.50	2.96	3.125	1.437	.89	17.0	1.62	1.75	MKM 553	M16 x 100	225	10.8
		1148-24-20M16							M16x2			-----	-----	---	
1½	1½	1147-24-24M16	3.75	4.50	2.96	3.125	1.437	1.10	17.0	1.62	2.00	MKM 553	M16 x 100	225	10.5
		1148-24-24M16							M16x2			-----	-----	---	
2	1½	1147-32-24M20	4.50	5.25	3.46	3.812	1.750	1.10	21.0	2.00	2.00	MKM 554	3/4-10 x 120	228	17.4
		1148-32-24M20							M20x2.5			-----	-----	---	
2	2	1147-32-32M20	4.75	5.25	3.46	3.812	1.750	1.50	21.0	2.00	2.50	MKM 554	3/4-10 x 120	228	17.3
		1148-32-32M20							M20x2.5			-----	-----	---	
2½	2	1147-40-32M24	5.88	6.88	4.50	4.875	2.312	1.50	25.5	2.50	2.50	MKM 2557	M24 x 150	232	37.8
		1148-40-32M24							M24x3			-----	-----	---	
2½	2½	1147-40-40M24	5.88	6.88	4.50	4.875	2.312	1.77	25.5	2.50	3.00	MKM 2557	M24 x 150	232	37.5
		1148-40-40M24							M24x3			-----	-----	---	
3	3	1147-48-48M30	7.00	8.50	5.00	6.000	2.812	2.30	32.0	3.00	3.50	MKM 556	M30 x 180	237	61.0
		1148-48-48M30							M30x3.5			-----	-----	---	

① Order Separately ② 2500 PSI Max ③ 2000 PSI Max ④ 500 PSI Max

® Schedules 40, 80 and 160 also Stocked. Other Pipe and Tube Sizes are Available

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

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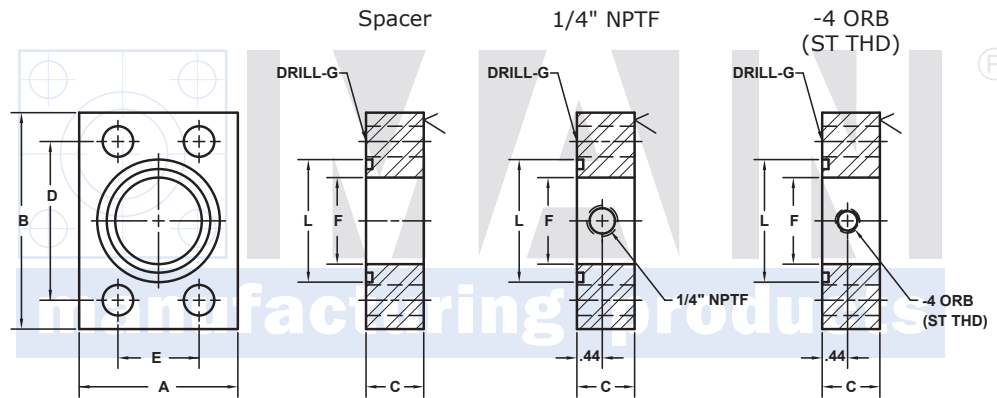
SPACERS AND GAUGE PORT ADAPTERS

1/4" GAUGE PORTS

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm	L	O-RING ^①	WT
1/2	NA	1303-08-08M8	1.50	2.12	1.00	1.500	.688	.50	8.5	1.000	210	.7
		2303-08-08M8										
		3303-08-08M8										
3/4	NA	1303-12-12M10	1.75	2.62	1.00	1.875	.875	.75	10.5	1.250	214	1.0
		2303-12-12M10										
		3303-12-12M10										
1	NA	1303-16-16M10	2.00	2.82	1.00	2.062	1.031	1.00	10.5	1.562	219	1.1
		2303-16-16M10										
		3303-16-16M10										
1 1/4	NA	1303-20-20M10†	2.50	3.19	1.00	2.312	1.188	1.25	10.5	1.750	222	1.6
		2303-20-20M10†										
		3303-20-20M10†										
1 1/2	NA	1303-24-24M12‡	2.75	3.75	1.00	2.750	1.406	1.50	13.0	2.125	225	2.0
		2303-24-24M12‡										
		3303-24-24M12‡										
2	NA	1303-32-32M12‡	3.25	4.00	1.00	3.062	1.688	1.94	13.0	2.500	228	2.4
		2303-32-32M12‡										
		3303-32-32M12‡										
2 1/2 ^②	NA	1303-40-40M12‡	4.00	4.50	1.00	3.500	2.000	2.44	13.0	3.000	232	3.3
		2303-40-40M12‡										
		3303-40-40M12‡										
3 ^③	NA	1303-48-48M16	4.50	5.31	1.00	4.188	2.438	2.94	17.0	3.625	237	4.1
		2303-48-48M16										
		3303-48-48M16										

MATERIAL:
Low Carbon Steel^⑤



Model 1303 / 1305 Model 2303 / 2305 Model 3303 / 3305

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SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm	L	O-RING ^①	WT
1/2	NA	1305-08-08M8	1.75	2.22	1.00	1.594	.718	.50	8.5	1.000	210	.8
		2305-08-08M8										
		3305-08-08M8										
3/4	NA	1305-12-12M10	2.00	2.81	1.00	2.000	.937	.75	10.5	1.250	214	1.2
		2305-12-12M10										
		3305-12-12M10										
1	NA	1305-16-16M12	2.25	3.19	1.00	2.250	1.093	1.00	12.5	1.562	219	1.5
		2305-16-16M12										
		3305-16-16M12										
1 1/4	NA	1305-20-20M12‡	2.75	3.75	1.00	2.625	1.250	1.25	13.0	1.750	222	2.2
		2305-20-20M12‡										
		3305-20-20M12‡										
1 1/2	NA	1305-24-24M16	3.25	4.50	1.00	3.125	1.437	1.50	17.0	2.125	225	3.1
		2305-24-24M16										
		3305-24-24M16										
2	NA	1305-32-32M20	4.00	5.25	1.00	3.812	1.750	1.94	21.0	2.500	228	4.3
		2305-32-32M20										
		3305-32-32M20										

① Includes Buna-N O-Ring ② 2500 PSI Max ③ 2000 PSI Max

⑤ May Contain Lead

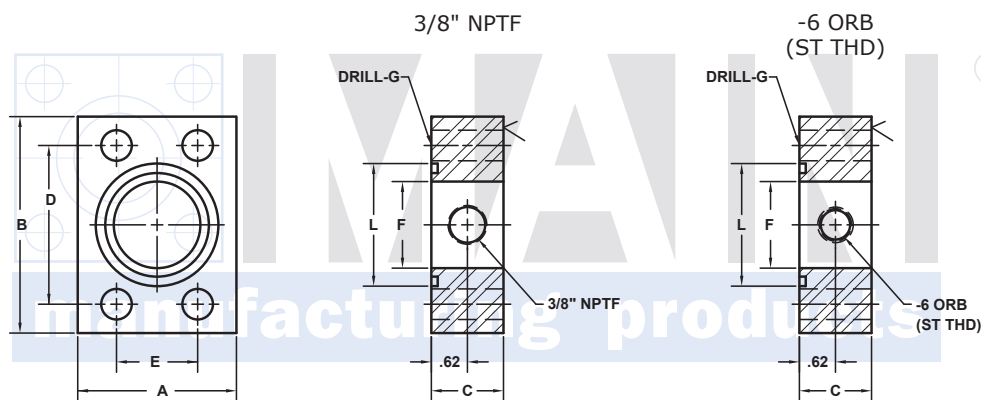
GAUGE PORT ADAPTERS

3/8" GAUGE PORTS

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm	L	O-RING ^①	WT
1/2	NA	1291-08-08M8	1.50	2.12	1.25	1.500	.688	.50	8.5	1.000	210	1.0
		1293-08-08M8										
3/4	NA	1291-12-12M10	1.75	2.62	1.25	1.875	.875	.75	10.5	1.250	214	1.2
		1293-12-12M10										
1	NA	1291-16-16M10	2.00	2.82	1.25	2.062	1.031	1.00	10.5	1.562	219	1.5
		1293-16-16M10										
1 1/4	NA	1291-20-20M10†	2.50	3.19	1.25	2.312	1.188	1.25	10.5	1.750	222	2.1
		1293-20-20M10†										
1 1/2	NA	1291-24-24M12‡	2.75	3.75	1.25	2.750	1.406	1.50	13.0	2.125	225	2.6
		1293-24-24M12‡										
2	NA	1291-32-32M12‡	3.25	4.00	1.25	3.062	1.688	1.94	13.0	2.500	228	3.2
		1293-32-32M12‡										
2 1/2 ^②	NA	1291-40-40M12‡	4.00	4.50	1.25	3.500	2.000	2.44	13.0	3.000	232	4.3
		1293-40-40M12‡										
3 ^③	NA	1291-48-48M16	4.50	5.31	1.25	4.188	2.438	2.94	17.0	3.625	237	5.5
		1293-48-48M16										

MATERIAL:
Low Carbon Steel^⑤



Model 1291 / 1292

Model 1293 / 1294

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SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm	L	O-RING ^①	WT
1/2	NA	1292-08-08M8	1.75	2.22	1.25	1.594	.718	.50	8.5	1.000	210	1.2
		1294-08-08M8										
3/4	NA	1292-12-12M10	2.00	2.81	1.25	2.000	.937	.75	10.5	1.250	214	1.6
		1294-12-12M10										
1	NA	1292-16-16M12	2.25	3.19	1.25	2.250	1.093	1.00	12.5	1.562	219	1.9
		1294-16-16M12										
1 1/4	NA	1292-20-20M12‡	2.75	3.75	1.25	2.625	1.250	1.25	13.0	1.750	222	2.8
		1294-20-20M12‡										
1 1/2	NA	1292-24-24M16	3.25	4.50	1.25	3.125	1.437	1.50	17.0	2.125	225	4.0
		1294-24-24M16										
2	NA	1292-32-32M20	4.00	5.25	1.25	3.812	1.750	1.94	21.0	2.500	228	5.6
		1294-32-32M20										

① Includes Buna-N O-Ring ② 2500 PSI Max ③ 2000 PSI Max

⑤ May Contain Lead

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

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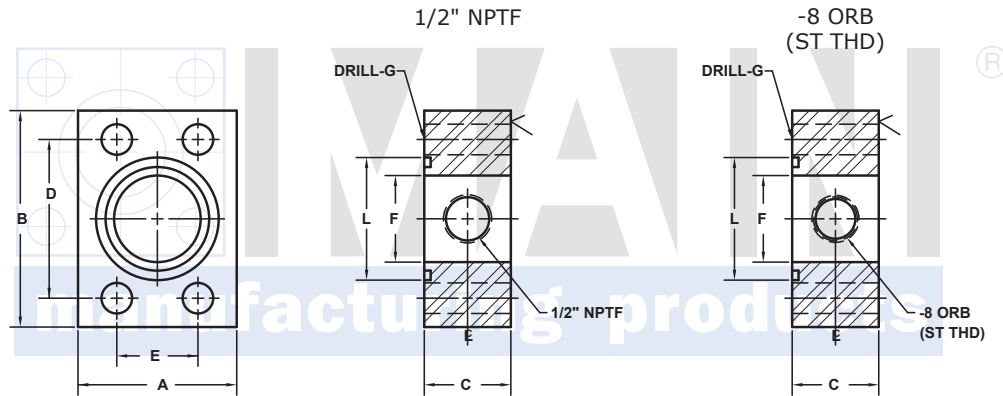
GAUGE PORT ADAPTERS

1/2" GAUGE PORTS

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm	L	O-RING ^①	WT
1/2	NA	1295-08-08M8	USE PART # 1197-08-08M8								210	
		1297-08-08M8	USE PART # 1201-08-08M8									
3/4	NA	1295-12-12M10	USE PART # 1197-12-08M10								214	
		1297-12-12M10	USE PART # 1201-12-08M10									
1	NA	1295-16-16M10	2.00	2.82	1.50	2.062	1.031	1.00	10.5	1.562	219	1.7
		1297-16-16M10										
1 1/4	NA	1295-20-20M10†	2.50	3.19	1.50	2.312	1.188	1.25	10.5	1.750	222	2.5
		1297-20-20M10†										
1 1/2	NA	1295-24-24M12‡	2.75	3.75	1.50	2.750	1.406	1.50	13.0	2.125	225	3.2
		1297-24-24M12‡										
2	NA	1295-32-32M12‡	3.25	4.00	1.50	3.062	1.688	1.94	13.0	2.500	228	3.8
		1297-32-32M12‡										
2 1/2 ^②	NA	1295-40-40M12‡	4.00	4.50	1.75	3.500	2.000	2.44	13.0	3.000	232	6.0
		1297-40-40M12‡										
3 ^③	NA	1295-48-48M16	4.50	5.31	2.00	4.188	2.438	2.94	17.0	3.625	237	8.8
		1297-48-48M16										

MATERIAL:
Low Carbon Steel^⑤



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SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm	L	O-RING ^①	WT
1/2	NA	1296-08-08M8	USE PART # 1199-08-08M8								210	
		1298-08-08M8	USE PART # 1203-08-08M8									
3/4	NA	1296-12-12M10	USE PART # 1199-12-08M10								214	
		1298-12-12M10	USE PART # 1203-12-08M10									
1	NA	1296-16-16M12	2.25	3.19	1.50	2.250	1.093	1.00	12.5	1.562	219	2.3
		1298-16-16M12										
1 1/4	NA	1296-20-20M12‡	3.00	3.75	1.50	2.625	1.250	1.25	13.0	1.750	222	3.8
		1298-20-20M12‡										
1 1/2	NA	1296-24-24M16	3.25	4.50	1.50	3.125	1.437	1.50	17.0	2.125	225	4.7
		1298-24-24M16										
2	NA	1296-32-32M20	4.00	5.25	1.75	3.812	1.750	1.94	21.0	2.500	228	7.8
		1298-32-32M20										

① Includes Buna-N O-Ring ② 2500 PSI Max ③ 2000 PSI Max

⑤ May Contain Lead

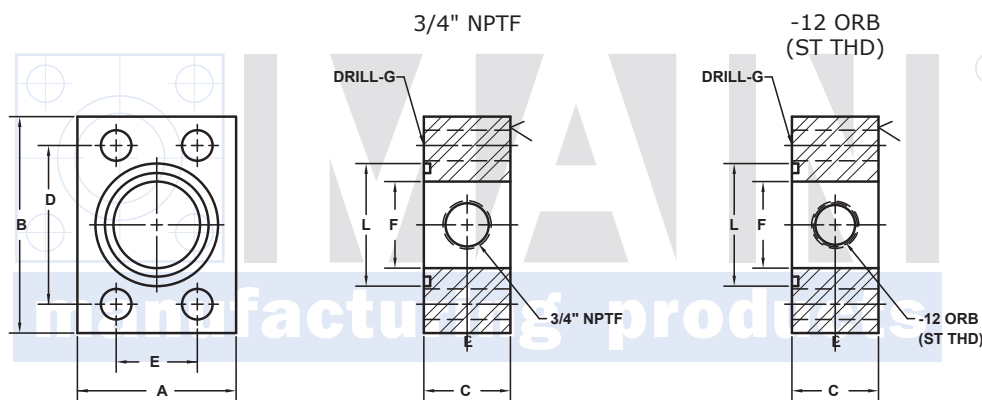
GAUGE PORT ADAPTERS

3/4" GAUGE PORTS

SAE J518 61 SERIES / ISO6162-1 PATTERN

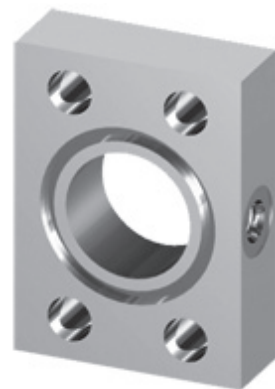
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm	L	O-RING ^①	WT
1/2	NA	1299-08-08M8	USE PART # 1197-08-12M8								210	
		1301-08-08M8	USE PART # 1201-08-12M8									
3/4	NA	1299-12-12M10	USE PART # 1197-12-12M10								214	
		1301-12-12M10	USE PART # 1201-12-12M10									
1	NA	1299-16-16M10	USE PART # 1197-16-12M10								219	
		1301-16-16M10	USE PART # 1201-16-12M10									
1 1/4	NA	1299-20-20M10†	2.50	3.19	1.75	2.312	1.188	1.25	10.5	1.750	222	2.8
		1301-20-20M10†										
1 1/2	NA	1299-24-24M12‡	2.75	3.75	1.75	2.750	1.406	1.50	13.0	2.125	225	3.6
		1301-24-24M12‡										
2	NA	1299-32-32M12‡	3.25	4.00	1.75	3.062	1.688	1.94	13.0	2.500	228	4.3
		1301-32-32M12‡										
2 1/2 ^②	NA	1299-40-40M12‡	4.00	4.50	1.75	3.500	2.000	2.44	13.0	3.000	232	6.0
		1301-40-40M12‡										
3 ^③	NA	1299-48-48M16	4.50	5.31	2.00	4.188	2.438	2.94	17.0	3.625	237	8.7
		1301-48-48M16										

MATERIAL:
Low Carbon Steel^⑤



Model 1299 / 1300

Model 1301 / 1302



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SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm	L	O-RING ^①	WT
1/2	NA	1300-08-08M8	USE PART # 1199-08-12M8								210	
		1302-08-08M8	USE PART # 1203-08-12M8									
3/4	NA	1300-12-12M10	USE PART # 1199-12-12M10								214	
		1302-12-12M10	USE PART # 1203-12-12M10									
1	NA	1300-16-16M12	USE PART # 1199-16-12M12								219	
		1302-16-16M12	USE PART # 1203-16-12M12									
1 1/4	NA	1300-20-20M12‡	3.00	3.75	1.75	2.625	1.250	1.25	13.0	1.750	222	4.3
		1302-20-20M12‡										
1 1/2	NA	1300-24-24M16	3.25	4.50	1.75	3.125	1.437	1.50	17.0	2.125	225	5.4
		1302-24-24M16										
2	NA	1300-32-32M20	4.00	5.25	1.75	3.812	1.750	1.94	21.0	2.500	228	7.7
		1302-32-32M20										

① Includes Buna-N O-Ring ② 2500 PSI Max ③ 2000 PSI Max

⑤ May Contain Lead

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

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MULTIPLE FLANGE PATTERN FLANGES

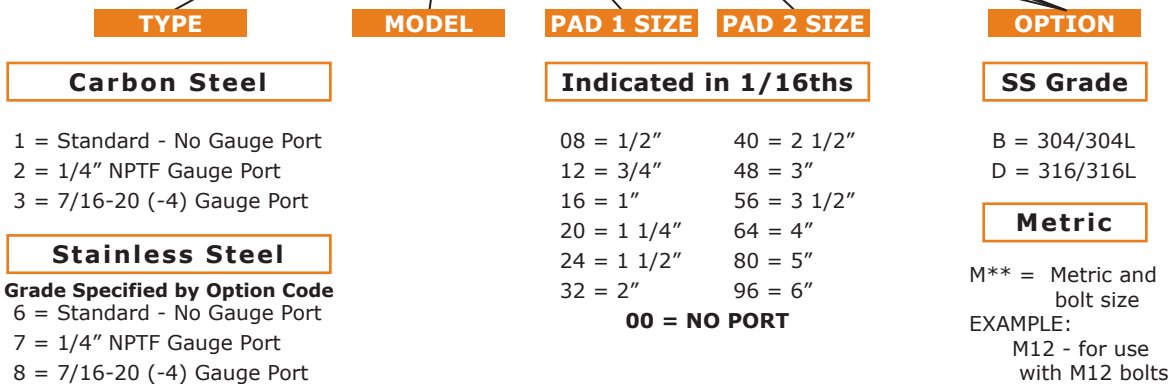
Some flanges offered by **MAIN Manufacturing Products, Inc.** have multiple flange connections. These flanges are available in In-Line, Elbow, Branch Tee and Run Tee and are also available with IMPERIAL (UNC) or METRIC bolt holes. The pages in this catalog refer to METRIC x METRIC on both flange patterns (####-##M-##M). These are also available in IMPERIAL x IMPERIAL (####-##-##), METRIC x IMPERIAL (####-##M**-##) and IMPERIAL x METRIC (####-##-##M**), where ** is the metric bolt size. The following would be a 1 1/4" (-20) Code 61 O-Ring style flange pattern x 1" (-16) Code 61 Flat Face flange pattern, In-Line Flange Adapter.

CATALOG PART NUMBERING SYSTEM

Both Pad 1 & 2 Use Metric Bolts:
Only Pad 1 Uses Metric Bolts:
Only Pad 2 Uses Metric Bolts:

1317 - 20 M - 16 M
1317 - 20 M10 - 16
1317 - 20 - 16 M10

1 317 20 M 16 * M****



METRIC x METRIC

1181-##M-##M

1182-##M-##M

1183-##M-##M

1184-##M-##M

1185-##M-##M

1186-##M-##M

1187-##M-##M

1188-##M-##M

1205-##M-##M

1206-##M-##M

1207-##M-##M

1208-##M-##M

1315-##M-##M

1316-##M-##M

1317-##M-##M

1318-##M-##M

1339-##M-##M

1340-##M-##M

1341-##M-##M

1342-##M-##M

METRIC x IMPERIAL

1181-##M**-##

1182-##M**-##

1183-##M**-##

1184-##M**-##

1185-##M**-##

1186-##M**-##

1187-##M**-##

1188-##M**-##

1205-##M**-##

1206-##M**-##

1207-##M**-##

1208-##M**-##

1315-##M**-##

1316-##M**-##

1317-##M**-##

1318-##M**-##

1339-##M**-##

1340-##M**-##

1341-##M**-##

1342-##M**-##

IMPERIAL x METRIC

1181-##-##M**

1182-##-##M**

1183-##-##M**

1184-##-##M**

1185-##-##M**

1186-##-##M**

1187-##-##M**

1188-##-##M**

1205-##-##M**

1206-##-##M**

1207-##-##M**

1208-##-##M**

1315-##-##M**

1316-##-##M**

1317-##-##M**

1318-##-##M**

1339-##-##M**

1340-##-##M**

1341-##-##M**

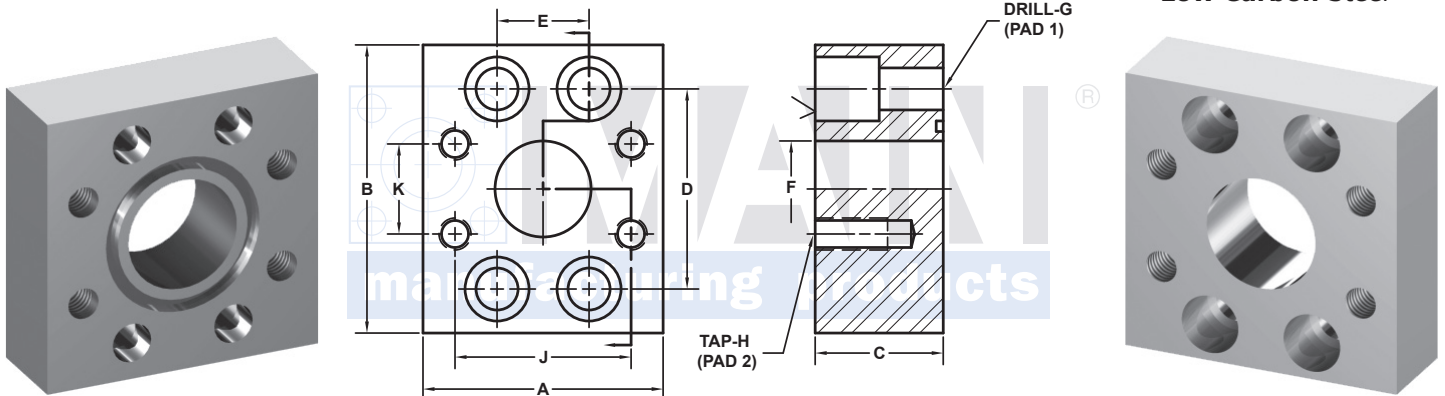
1342-##-##M**

FLANGE ADAPTERS

AVAILABLE AS PAD ROTATORS, REDUCERS AND INCREASERS (Not shown)

SAE J518 / ISO6162 BOLT PATTERN										61 SERIES TO 61 SERIES					
PAD 1 C61	PAD 2 C61	PART NUMBER	A	B	C	D	E	F	Gmm	H	J	K	MOUNTING KIT ^①		
													PART NO.	SCREW SIZE	O-RING
1/2	1/2	1317-08M8-08	2.25	2.25	1.00	1.500	.688	.50	8.5	5/16-18	1.500	.688	MKM 564	M8 x 25	210
3/4	1/2	1317-12M10-08	2.25	2.75	1.75	1.875	.875	.50	10.5	5/16-18	1.500	.688	MKM 502	M10 x 40	214
3/4	3/4	1317-12M10-12	2.75	2.75	1.00	1.875	.875	.75	10.5	3/8-16	1.875	.875	MKM 5572	M10 x 25	214
1	1/2	1317-16M10-08	2.25	3.00	1.75	2.062	1.031	.50	10.5	5/16-18	1.500	.688	MKM 503	M10 x 40	219
1	3/4	1317-16M10-12	2.75	3.00	1.75	2.062	1.031	.75	10.5	3/8-16	1.875	.875	MKM 503	M10 x 40	219
1	1	1317-16M10-16	3.00	3.00	1.25	2.062	1.031	1.00	10.5	3/8-16	2.062	1.031	MKM 2535	M10 x 30	219
1 1/4	3/4	1317-20M10+12	2.75	3.25	1.75	2.312	1.188	.75	10.5	3/8-16	1.875	.875	MKM 3524	M10 x 40	222
1 1/4	1	1317-20M10+16	2.81	3.25	1.75	2.312	1.188	1.00	10.5	3/8-16	2.062	1.031	MKM 3524	M10 x 40	222
1 1/4	1 1/4	1317-20M10+20	3.25	3.25	1.25	2.312	1.188	1.25	10.5	7/16-14	2.312	1.188	MKM 2567	M10 x 30	222
1 1/2	1	1317-24M12+16	2.75	3.75	1.75	2.750	1.406	1.00	13.0	3/8-16	2.062	1.031	MKM 2599	M12 x 45	225
1 1/2	1 1/4	1317-24M12+20	3.25	3.75	2.00	2.750	1.406	1.25	13.0	7/16-14	2.312	1.188	MKM 3596	M12 x 50	225
1 1/2	1 1/2	1317-24M12+24	3.75	3.75	1.25	2.750	1.406	1.50	13.0	1/2-13	2.750	1.406	MKM 5502	M12 x 30	225

MATERIAL:
Low Carbon Steel^⑤



NOTE: Model 1317, shown, is O-Ring Face by Flat Face. Model 1318, see page 66, is Flat Face by Flat Face.

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SAE J518 / ISO6162 BOLT PATTERN										61 SERIES TO 61 SERIES					
PAD 1 C61	PAD 2 C61	PART NUMBER	A	B	C	D	E	F	Gmm	H	J	K	MOUNTING KIT ^①		
													PART NO.	SCREW SIZE	O-RING
2	1 1/4	1317-32M12+20	3.25	4.00	2.00	3.062	1.688	1.25	13.0	7/16-14	2.312	1.188	MKM 4513	M12 x 45	228
2	1 1/2	1317-32M12+24	3.75	4.00	2.00	3.062	1.688	1.50	13.0	1/2-13	2.750	1.406	MKM 4513	M12 x 45	228
2	2	1317-32M12+32	4.00	4.00	1.25	3.062	1.688	1.94	13.0	1/2-13	3.062	1.688	MKM 1509	M12 x 30	228
2 1/2 ^②	1 1/2	1317-40M12+24	4.00	4.50	2.00	3.500	2.000	1.50	13.0	1/2-13	2.750	1.406	MKM 2575	M12 x 50	232
2 1/2 ^②	2	1317-40M12+32	4.00	4.50	2.00	3.500	2.000	1.94	13.0	1/2-13	3.062	1.688	MKM 2575	M12 x 50	232
2 1/2 ^②	2 1/2	1317-40M12+40	4.50	4.50	1.50	3.500	2.000	2.44	13.0	1/2-13	3.500	2.000	MKM 3538	M12 x 40	232
3 ^③	2	1317-48M16-32	4.50	5.31	2.00	4.188	2.438	1.94	17.0	1/2-13	3.062	1.688	MKM 1511	M16 x 50	237
3 ^③	2 1/2	1317-48M16-40	4.50	5.50	2.25	4.188	2.438	2.44	17.0	1/2-13	3.500	2.000	MKM 585	M16 x 60	237
3 ^③	3	1317-48M16-48	5.50	5.50	1.75	4.188	2.438	2.94	17.0	5/8-11	4.188	2.438	MKM 2538	M16 x 45	237

① Order Separately

② 2500 PSI Max

③ 2000 PSI Max

⑤ May Contain Lead

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. + Also Available for M12 Bolts + Also Available for M14 Bolts

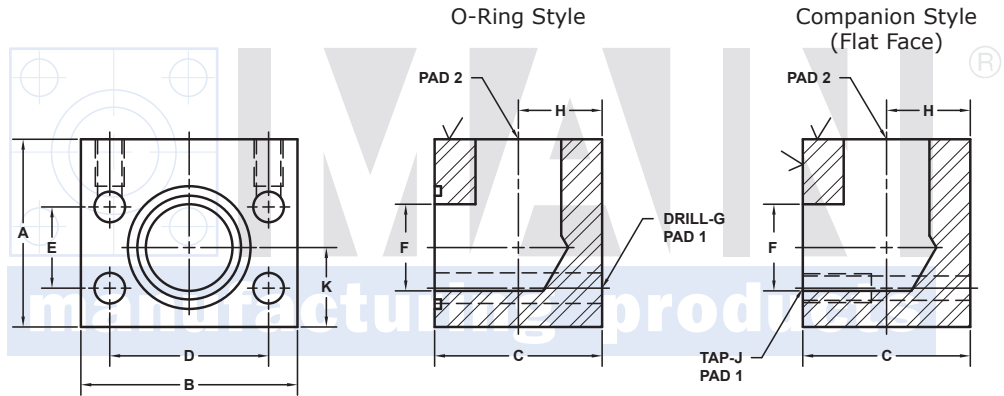
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FLANGED ELBOW FLANGES (Pg 1/2)

SAE J518 61 SERIES / ISO6162-1 PATTERN

PAD 1 SIZE	PAD 2 SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1571-08M8-08M8	2.25	2.12	2.25	1.500	.688	.50	8.5	.78	.78	MKM	M8 x 70	210	2.8
		1572-08M8-08M8							M8x1.25			-----	-----	---	
3/4	3/4	1181-12M-12M	2.50	2.62	2.25	1.875	.875	.75	10.5	1.03	1.03	MKM 576	M10 x 70	214	3.5
		1182-12M-12M							M10x1.5			-----	-----	---	
3/4	1	1181-12M-16M	2.50	2.82	2.50	1.875	.875	.75	10.5	1.25	1.03	MKM 595	M10 x 80	214	4.3
		-----							USE PART # 1182-16M-12M					-----	
1	1	1181-16M-16M	2.50	2.82	2.50	2.062	1.031	1.00	10.5	1.16	1.09	MKM 577	M10 x 80	219	4.0
		1182-16M-16M							M10x1.5			-----	-----	---	
1	1 1/4	1181-16M-20M†	3.00	3.25	3.00	2.062	1.031	1.00	10.5	1.44	1.09	MKM 3530	M10 x 90	219	7.0
		-----							USE PART # 1182-20M†-16M					-----	
1 1/4	1	1181-20M†-16M	3.25	3.19	3.25	2.312	1.188	1.25	10.5	1.38	1.38	MKM	M10 x	222	8.2
		1182-20M†-16M							M10x1.5			-----	-----	---	
1 1/4	1 1/4	1181-20M†-20M†	3.25	3.19	3.25	2.312	1.188	1.25	10.5	1.38	1.38	MKM	M10 x	222	7.9
		1182-20M†-20M†							M10x1.5			-----	-----	---	
1 1/4	1 1/2	1181-20M†-24M‡	3.50	3.75	3.50	2.312	1.188	1.25	10.5	1.62	1.38	MKM	M10 x	222	11.0
		-----							USE PART # 1182-24M‡-20M†					-----	
1 1/2	1 1/4	1181-24M‡-20M†	4.00	3.75	3.00	2.750	1.406	1.50	13.0	1.50	1.38	MKM 3521	M12 x 100	225	10.7
		1182-24M‡-20M†							M12x1.75			-----	-----	---	
1 1/2	1 1/2	1181-24M‡-24M‡	3.50	3.75	3.50	2.750	1.406	1.50	13.0	1.62	1.62	MKM 5549	M12 x 110	225	10.7
		1182-24M‡-24M‡							M12x1.75			-----	-----	---	
1 1/2	2	1181-24M‡-32M‡	4.00	4.00	4.00	2.750	1.406	1.50	13.0	1.91	1.62	MKM 4566	M12 x 120	225	14.6
		-----							USE PART # 1182-32M‡-24M‡					-----	

MATERIAL:
Low Carbon Steel^⑤



Model 1181 / 1183

Model 1182 / 1184

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

PAD 1 SIZE	PAD 2 SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1183-08M8-08M8	2.00	2.22	2.00	1.594	.718	.50	8.5	.94	.81	MKM 575	M8 x 60	210	2.3
		1184-08M8-08M8							M8x1.25			-----	-----	---	
3/4	1/2	1183-12M-08M	2.50	2.81	2.50	2.000	.937	.75	10.5	1.19	1.06	MKM 595	M10 x 80	214	4.5
		1184-12M-08M							M10x1.5			-----	-----	---	
3/4	3/4	1183-12M-12M	2.50	2.81	2.50	2.000	.937	.75	10.5	1.19	1.06	MKM 595	M10 x 80	214	4.4
		1184-12M-12M							M10x1.5			-----	-----	---	
1	3/4	1183-16M-12M	3.00	3.19	3.00	2.250	1.093	1.00	12.5	1.38	1.38	MKM 596	M10 x 100	219	7.3
		1184-16M-12M							M12x1.75			-----	-----	---	
1	1	1183-16M-16M	3.00	3.19	3.00	2.250	1.093	1.00	12.5	1.38	1.38	MKM 596	M10 x 100	219	7.2
		1184-16M-16M							M12x1.75			-----	-----	---	
1 1/4	1	1183-20M‡-16M	3.50	3.75	3.00	2.625	1.250	1.25	13.0	110.5	1.50	MKM	M12 x	222	9.3
		1184-20M‡-16M							M12x1.75			-----	-----	---	
1 1/4	1 1/4	1183-20M‡-20M‡	3.50	3.75	3.50	2.625	1.250	1.25	13.0	1.62	110.5	MKM 5548	M12 x 110	222	10.8
		1184-20M‡-20M‡							M12x1.75			-----	-----	---	
1 1/4	1 1/2	1183-20M‡-24M	4.00	4.50	4.00	2.625	1.250	1.25	13.0	1.90	1.75	MKM 2560	M12 x 120	222	17.5
		-----							USE PART # 1184-24M-20M‡					-----	

① Order Separately

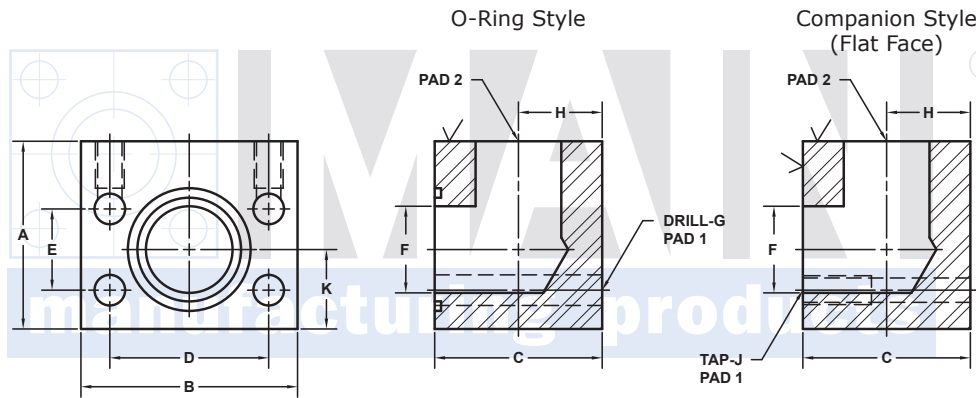
⑤ May Contain Lead

FLANGED ELBOW FLANGES (Pg 2/2)

SAE J518 61 SERIES / ISO6162-1 PATTERN

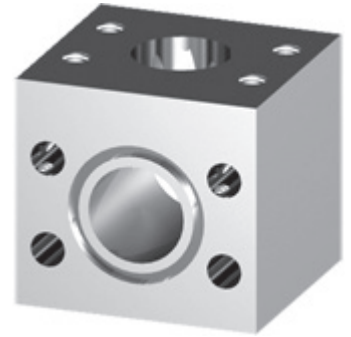
PAD 1 SIZE	PAD 2 SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									PART NO.			SCREW SIZE	O-RING		
2	1¼	1181-32M±-20M±	4.50	4.00	3.00	3.062	1.688	1.94	13.0	1.44	1.62	MKM 4547	M12 x 90	228	12.3
		1182-32M±-20M±							M12x1.75			-----	-----	---	
2	1½	1181-32M±-24M±	4.00	4.00	4.00	3.062	1.688	1.94	13.0	1.91	1.91	MKM 3550	M12 x 120	228	14.5
		1182-32M±-24M±							M12x1.75			-----	-----	---	
2	2	1181-32M±-32M±	4.00	4.00	4.00	3.062	1.688	1.94	13.0	1.91	1.91	MKM 3550	M12 x 120	228	13.9
		1182-32M±-32M±							M12x1.75			-----	-----	---	
2½ ^②	2	1181-40M±-32M±	4.50	4.50	4.50	3.500	2.000	2.44	13.0	2.14	2.25	MKM 4529	M12 x 130	232	19.8
		1182-40M±-32M±							M12x1.75			-----	-----	---	
2½ ^②	2½	1181-40M±-40M±	4.50	4.50	4.50	3.500	2.000	2.44	13.0	2.14	2.25	MKM 4529	M12 x 130	232	18.8
		1182-40M±-40M±							M12x1.75			-----	-----	---	
3 ^③	2	1181-48M-32M±	5.00	5.31	4.00	4.188	2.438	2.94	17.0	1.91	2.25	MKM	M16 x	237	22.1
		1182-48M-32M±							M16x2			-----	-----	---	
3 ^③	2½	1181-48M-40M±	5.50	5.31	5.50	4.188	2.438	2.94	17.0	2.58	2.75	MKM 594	M16 x 160	237	34.3
		1182-48M-40M±							M16x2			-----	-----	---	
3 ^③	3	1181-48M-48M	5.50	5.31	5.50	4.188	2.438	2.94	17.0	2.58	2.75	MKM 594	M16 x 160	237	32.7
		1182-48M-48M							M16x2			-----	-----	---	
3½ ^④	3½	1181-56M-56M	6.00	6.00	6.00	4.750	2.750	3.44	17.0	3.00	3.00	MKM 1589	M16 x 180	241	45.0
		1182-56M-56M							M16x2			-----	-----	---	
4 ^④	4	1181-64M-64M	6.00	6.38	6.00	5.125	3.062	3.94	17.0	2.81	3.00	MKM 550	M16 x 180	245	43.0
		1182-64M-64M							M16x2			-----	-----	---	
5 ^④	5	1181-80M-80M				6.000	3.625		17.0					253	
		1182-80M-80M							M16x2			-----	-----	---	

MATERIAL:
Low Carbon Steel^⑤



Model 1181 / 1183

Model 1182 / 1184



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

PAD 1 SIZE	PAD 2 SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1½	1¼	1183-24M-20M±	4.00	4.50	4.00	3.125	1.437	1.50	17.0	1.88	1.75	MKM 597	M16 x 130	225	17.4
		1184-24M-20M±							M16x2			-----	-----	---	
1½	1½	1183-24M-24M	4.00	4.50	4.00	3.125	1.437	1.50	17.0	1.88	1.75	MKM 597	M16 x 130	225	16.9
		1184-24M-24M							M16x2			-----	-----	---	
1½	2	1183-24M-32M	4.50	5.25	5.00	3.125	1.437	1.50	17.0	2.50	1.75	MKM 3503	M16 x 6	225	29.0
		-----							USE PART # 1184-32M-24M			-----	-----	---	
2	1½	1183-32M-24M	5.00	5.25	5.00	3.812	1.750	1.94	21.0	2.25	2.50	MKM 5554	M20 x 160	228	31.8
		1184-32M-24M							M20x2.5			-----	-----	---	
2	2	1183-32M-32M	5.00	5.25	5.00	3.812	1.750	1.94	21.0	2.25	2.50	MKM 5554	M20 x 160	228	31.5
		1184-32M-32M							M20x2.5			-----	-----	---	
2½	2	1183-40M-32M	6.00	7.00	5.00	4.875	2.312	2.44	25.5	2.50	2.50	MKM	M24 x	232	49.7
		1184-40M-32M							M24x3			-----	-----	---	
2½	2½	1183-40M-40M	6.00	7.00	6.00	4.875	2.312	2.44	25.5	2.75	2.50	MKM 1596	M24 x 160	232	56.6
		1184-40M-40M							M24x3			-----	-----	---	
3	3	1183-48M-48M	7.00	8.50	7.00	6.000	2.812	2.94	32.0	3.25	3.00	MKM	M30 x	237	92.4
		1184-48M-48M							M30x3.5			-----	-----	---	

① Order Separately

② 2500 PSI Max

③ 2000 PSI Max

④ 500 PSI Max

⑤ May Contain Lead

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. + Also Available for M12 Bolts ± Also Available for M14 Bolts

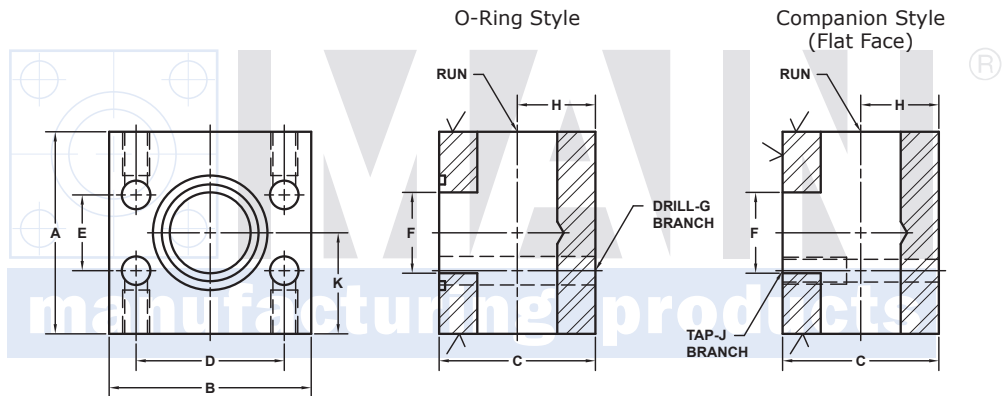
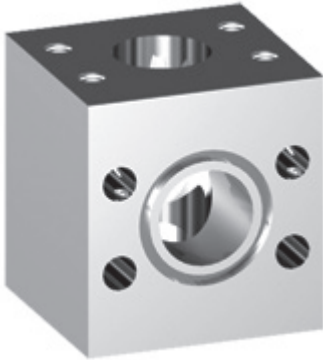
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FLANGED BRANCH TEE FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

BRANCH SIZE	RUN SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT ^①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1575-08M8-08M8	3.00	2.12	2.25	1.500	.688	.50	8.5	.78	1.50	MKM	M8 x 70	210	3.6
		1576-08M8-08M8							M8x1.25			-----	-----	---	
3/4	3/4	1185-12M-12M	2.75	2.62	2.25	1.875	.875	.75	10.5	1.03	1.38	MKM 576	M10 x 70	214	3.6
		1186-12M-12M							M10x1.5			-----	-----	---	
1	1	1185-16M-16M	3.00	2.82	2.50	2.062	1.031	1.00	10.5	1.16	1.50	MKM 577	M10 x 80	219	4.6
		1186-16M-16M							M10x1.5			-----	-----	---	
1 1/4	1 1/4	1185-20M†-20M†	3.75	3.19	3.25	2.312	1.188	1.25	10.5	1.38	1.88	MKM 4597	M10 x 90	222	9.0
		1186-20M†-20M†							M10x1.5			-----	-----	---	
1 1/2	1 1/2	1185-24M‡-24M‡	4.00	3.75	3.50	2.750	1.406	1.50	13.0	1.62	2.00	MKM 5549	M12 x 110	225	11.2
		1186-24M‡-24M‡							M12x1.75			-----	-----	---	
2	2	1185-32M‡-32M‡	4.25	4.00	4.00	3.062	1.688	1.94	13.0	1.91	2.12	MKM 3550	M12 x 120	228	13.8
		1186-32M‡-32M‡							M12x1.75			-----	-----	---	
2 1/2 ^②	2 1/2	1185-40M‡-40M‡	4.50	4.50	4.50	3.500	2.000	2.44	13.0	2.14	2.25	MKM 4529	M12 x 130	232	17.0
		1186-40M‡-40M‡							M12x1.75			-----	-----	---	
3 ^③	3	1185-48M-48M	5.50	5.31	5.50	4.188	2.438	2.94	17.0	2.58	2.75	MKM 594	M16 x 160	237	29.9
		1186-48M-48M							M16x2			-----	-----	---	
3 1/2 ^④	3 1/2	1185-56M-56M	6.00	6.00	6.00	4.750	2.750	3.44	17.0	3.00	3.00	MKM 1589	M16 x 180	241	38.0
		1186-56M-56M							M16x2			-----	-----	---	
4 ^④	4	1185-64M-64M	6.00	6.38	6.00	5.125	3.062	3.94	17.0	2.81	3.00	MKM 550	M16 x 180	245	35.8
		1186-64M-64M							M16x2			-----	-----	---	
5 ^④	5	1185-80M-80M				6.000	3.625		17.0			MKM	M16 x	253	
		1186-80M-80M							M16x2			-----	-----	---	

MATERIAL:
Low Carbon Steel^⑤



Model 1185 / 1187

Model 1186 / 1188

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

BRANCH SIZE	RUN SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	MOUNTING KIT①			WT
									PART NO.			SCREW SIZE	O-RING		
1/2	1/2	1187-08M8-08M8	2.50	2.22	2.00	1.594	.718	.50	8.5	.94	1.25	MKM 575	M8 x 60	210	2.7
		1188-08M8-08M8							M8x1.25			-----	-----	---	
3/4	3/4	1187-12M-12M	3.00	2.81	2.50	2.000	.937	.75	10.5	1.19	1.50	MKM 595	M10 x 80	214	5.1
		1188-12M-12M							M10x1.5			-----	-----	---	
1	1	1187-16M-16M	3.50	3.19	3.00	2.250	1.093	1.00	12.5	1.38	1.75	MKM 596	M12 x 100	219	7.7
		1188-16M-16M							M12x1.75			-----	-----	---	
1 1/4	1 1/4	1187-20M+-20M+	4.00	3.75	3.50	2.625	1.250	1.25	13.0	1.62	2.00	MKM 5548	M12 x 110	222	11.9
		1188-20M+-20M+							M12x1.75			-----	-----	---	
1 1/2	1 1/2	1187-24M-24M	4.50	4.50	4.00	3.125	1.437	1.50	17.0	1.88	2.25	MKM 597	M16 x 130	225	17.8
		1188-24M-24M							M16x2			-----	-----	---	
2	2	1187-32M-32M	5.00	5.25	5.00	3.812	1.750	1.94	21.0	2.25	2.50	MKM 5554	M20 x 160	228	27.8
		1188-32M-32M							M20x2.5			-----	-----	---	
2 1/2	2 1/2	1187-40M-40M	7.00	7.00	6.00	4.875	2.312	2.44	25.5	2.50	3.50	MKM	M24 x	232	64.3
		1188-40M-40M							M24x3			-----	-----	---	
3	3	1187-48M-48M	9.00	8.50	7.00	6.000	2.812	2.94	32.0	3.00	4.50	MKM	M30 x	237	116
		1188-48M-48M							M30x3.5			-----	-----	---	

① Order Separately

② 2500 PSI Max

③ 2000 PSI Max

④ 500 PSI Max

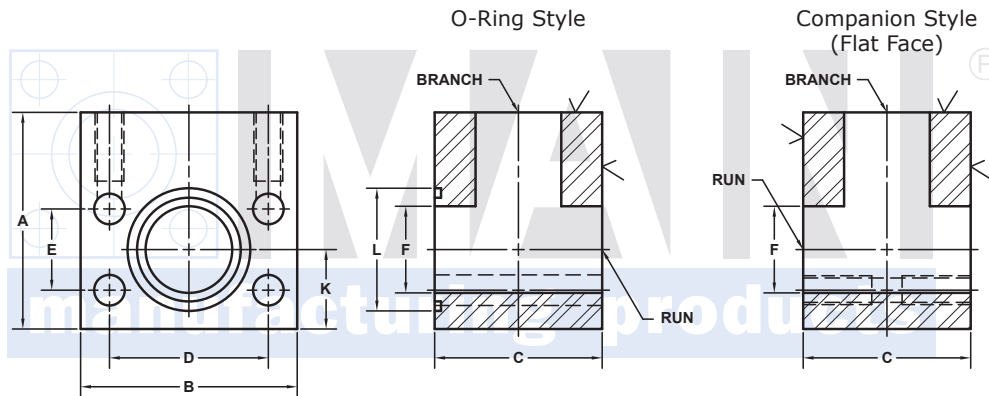
⑤ May Contain Lead

FLANGED RUN TEE FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

RUN SIZE	BRANCH SIZE	PART NUMBER	A	B	C	D	E	F	K	L	O-RING ^①	WT
1/2	1/2	1579-08M8-08M8	2.25	2.12	2.25	1.500	.688	.50	.78	1.000	210	2.6
		1580-08M8-08M8	USE PART # 1576-08M8-08M8							---	---	
3/4	3/4	1205-12M-12M	2.50	2.62	2.25	1.875	.875	.75	1.03	1.250	214	3.5
		1206-12M-12M	USE PART # 1186-12M-12M							---	---	
1	1	1205-16M-16M	2.50	2.82	2.50	2.062	1.031	1.00	1.09	1.562	219	4.0
		1206-16M-16M	USE PART # 1186-16M-16M							---	---	
1 1/4	1 1/4	1205-20M†-20M†	3.25	3.19	3.25	2.312	1.188	1.25	1.38	1.750	222	7.2
		1206-20M†-20M†	USE PART # 1186-20M-20M†							---	---	
1 1/2	1 1/2	1205-24M†-24M†	3.50	3.75	3.50	2.750	1.406	1.50	1.62	2.125	225	10.7
		1206-24M†-24M†	USE PART # 1186-24M-24M†							---	---	
2	2	1205-32M†-32M†	4.00	4.00	4.00	3.062	1.688	1.94	1.91	2.500	228	13.6
		1206-32M†-32M†	USE PART # 1186-32M-32M†							---	---	
2 1/2 ^②	2 1/2	1205-40M†-40M†	4.50	4.50	4.50	3.500	2.000	2.44	2.25	3.000	232	18.3
		1206-40M†-40M†	USE PART # 1186-40M-40M†							---	---	
3 ^③	3	1205-48M-48M	5.50	5.31	5.50	4.188	2.438	2.94	2.75	3.625	237	31.7
		1206-48M-48M	USE PART # 1186-48M-48M							---	---	
3 1/2 ^④	3 1/2	1205-56M-56M	6.00	6.00	6.00	4.750	2.750	3.44	3.00	4.109	241	45.0
		1206-56M-56M	USE PART # 1186-56M-56M							---	---	
4 ^④	4	1205-64M-64M	6.00	6.38	6.00	5.125	3.062	3.94	3.00	4.609	245	58.2
		1206-64M-64M	USE PART # 1186-64M-64M							---	---	
5 ^④	5	1205-80M-80M				6.000	3.625			5.609	253	
		1206-80M-80M	USE PART # 1186-80M-80M							---	---	

MATERIAL:
Low Carbon Steel^⑤



Model 1205 / 1207

Model 1206 / 1208

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

RUN SIZE	BRANCH SIZE	PART NUMBER	A	B	C	D	E	F	K	L	O-RING ^①	WT
1/2	1/2	1207-08M8-08M8	2.00	2.22	2.00	1.594	.718	.50	.81	1.000	210	2.0
		1208-08M8-08M8	USE PART # 1188-08M8-08M8							---	---	
3/4	3/4	1207-12M-12M	2.50	2.81	2.50	2.000	.937	.75	1.06	1.250	214	4.3
		1208-12M-12M	USE PART # 1188-12M-12M							---	---	
1	1	1207-16M-16M	3.00	3.19	3.00	2.250	1.093	1.00	1.38	1.562	219	7.0
		1208-16M-16M	USE PART # 1188-16M-16M							---	---	
1 1/4	1 1/4	1207-20M†-20M†	3.50	3.75	3.50	2.625	1.250	1.25	1.41	1.750	222	10.8
		1208-20M†-20M†	USE PART # 1188-20M-20M†							---	---	
1 1/2	1 1/2	1207-24M-24M	4.00	4.50	4.00	3.125	1.437	1.50	1.75	2.125	225	16.6
		1208-24M-24M	USE PART # 1188-24M-24M							---	---	
2	2	1207-32M-32M	5.00	5.25	5.00	3.812	1.750	1.94	2.50	2.500	228	29.7
		1208-32M-32M	USE PART # 1188-32M-32M							---	---	
2 1/2	2 1/2	1207-40M-40M	6.00	7.00	6.00	4.875	2.312	2.44	2.50	3.000	232	54.5
		1208-40M-40M	USE PART # 1188-40M-40M							---	---	
3	3	1207-48M-48M	7.00	8.50	7.00	6.000	2.812	2.94	3.00	3.625	237	88.7
		1208-48M-48M	USE PART # 1188-48M-48M							---	---	

① Includes Buna-N O-Ring ② 2500 PSI Max ③ 2000 PSI Max ④ 500 PSI Max

⑤ May Contain Lead

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

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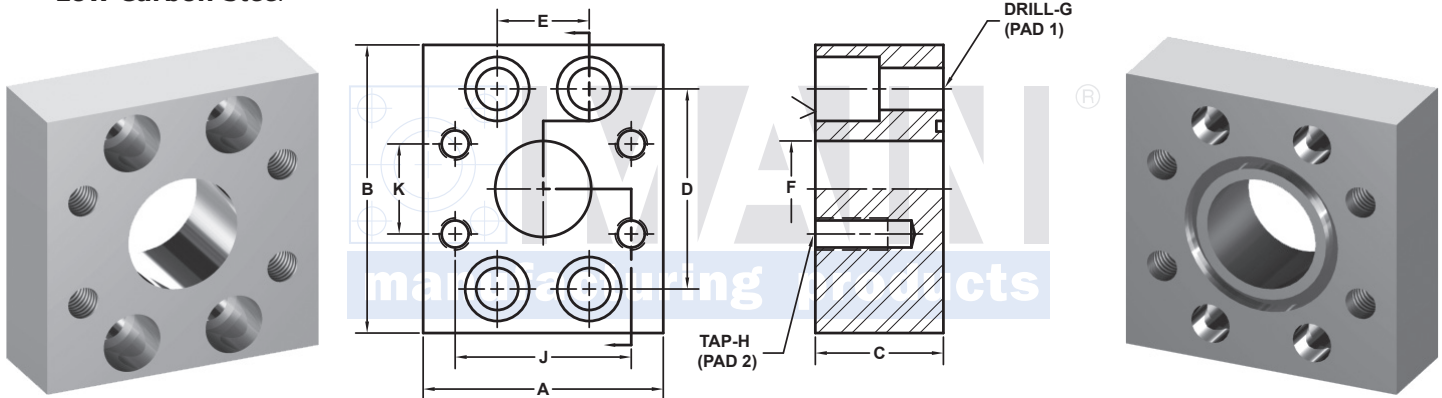
FLANGE ADAPTERS

AVAILABLE AS PAD ROTATORS, REDUCERS AND INCREASERS (Not shown)

SAE J518 / ISO6162 BOLT PATTERN										61 SERIES® TO 62 SERIES					
PAD 1 C61	PAD 2 C62	PART NUMBER	A	B	C	D	E	F	Gmm	Hmm	J	K	MOUNTING KIT®		
													PART NO.	SCREW SIZE	O-RING
1/2	1/2	1315-08M8-08M8	2.25	2.25	1.00	1.500	.688	.50	8.5	M8x1.25	1.594	.718	MKM 564	M8 x 25	210
3/4	1/2	1315-12M-08M8	2.25	2.75	1.75	1.875	.875	.50	10.5	M8x1.25	1.594	.718	MKM 502	M10 x 40	214
3/4	3/4	1315-12M-12M	2.81	2.75	1.00	1.875	.875	.75	10.5	M10x1.5	2.000	.937	MKM 5572	M10 x 25	214
1	1/2	1315-16M-08M8	2.25	3.00	1.75	2.062	1.031	.50	10.5	M8x1.25	1.594	.718	MKM 503	M10 x 40	219
1	3/4	1315-16M-12M	2.81	3.00	1.75	2.062	1.031	.75	10.5	M10x1.5	2.000	.937	MKM 503	M10 x 40	219
1	1	1315-16M-16M	3.19	3.00	1.25	2.062	1.031	1.00	10.5	M12x1.75	2.250	1.093	MKM 2535	M10 x 30	219
1 1/4	3/4	1315-20M-12M	2.81	3.25	1.75	2.312	1.188	.75	10.5	M10x1.5	2.000	.937	MKM 3524	M10 x 40	222
1 1/4	1	1315-20M-16M	3.19	3.25	1.75	2.312	1.188	1.00	10.5	M12x1.75	2.250	1.093	MKM 3524	M10 x 40	222
1 1/4	1 1/4	1315-20M-20M†	3.75	3.25	1.25	2.312	1.188	1.25	10.5	M12x1.75	2.625	1.250	MKM 2567	M10 x 30	222
1 1/2	1	1315-24M†-16M	3.19	3.75	1.75	2.750	1.406	1.00	13.0	M12x1.75	2.250	1.093	MKM 2599	M12 x 45	225
1 1/2	1 1/4	1315-24M†-20M†	3.75	3.75	1.75	2.750	1.406	1.25	13.0	M12x1.75	2.625	1.250	MKM 2599	M12 x 45	225
1 1/2	1 1/2	1315-24M†-24M	4.50	3.75	1.50	2.750	1.406	1.50	13.0	M16x2	3.125	1.437	MKM 3535	M12 x 35	225

MATERIAL:

Low Carbon Steel^⑤



NOTE: Model 1315, shown, is O-Ring Face by Flat Face. Model 1316, see page 64, is Flat Face by Flat Face.

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 / ISO6162 BOLT PATTERN										61 SERIES® TO 62 SERIES					
PAD 1 C61	PAD 2 C62	PART NUMBER	A	B	C	D	E	F	Gmm	Hmm	J	K	MOUNTING KIT®		
													PART NO.	SCREW SIZE	O-RING
2	1 1/4	1315-32M†-20M†	3.75	4.00	2.00	3.062	1.688	1.25	13.0	M12x1.75	2.625	1.250	MKM 4513	M12 x 45	228
2	1 1/2	1315-32M†-24M	4.50	4.00	1.50	3.062	1.688	1.50	13.0	M16x2	3.125	1.437	MKM 3537	M12 x 35	228
2	2	1315-32M†-32M	5.25	4.00	1.75	3.062	1.688	1.94	13.0	M20x2.5	3.812	1.750	MKM 4513	M12 x 45	228
2 1/2 ^②	1 1/2	1315-40M†-24M	4.50	4.50	2.25	3.500	2.000	1.50	13.0	M16x2	3.125	1.437	MKM 4511	M12 x 60	232
2 1/2 ^②	2	1315-40M†-32M	5.25	4.50	1.75	3.500	2.000	1.94	13.0	M20x2.5	3.812	1.750	MKM 3562	M12 x 45	232
2 1/2 ^②	2 1/2	1315-40M†-40M	6.88	5.00	2.00	3.500	2.000	2.44	13.0	M24x3	4.875	2.312	MKM 2575	M12 x 50	232
3 ^③	2	1315-48M-32M	5.25	5.50	2.50	4.188	2.438	1.94	17.0	M20x2.5	3.812	1.750	MKM 585	M16 x 60	237
3 ^③	2 1/2	1315-48M-40M	6.88	5.50	2.00	4.188	2.438	2.44	17.0	M24x3	4.875	2.312	MKM 1511	M16 x 50	237
3 ^③	3	1315-48M-48M	8.50	6.00	2.50	4.188	2.438	2.94	17.0	M30x3.5	6.000	2.812	MKM 585	M16 x 60	237

① Order Separately

② 2500 PSI Max

③ 2000 PSI Max

⑤ May Contain Lead

⑥ **CAUTION:** Flange Adapter Pressure Rating CANNOT Exceed 61 Series Pad Connection.

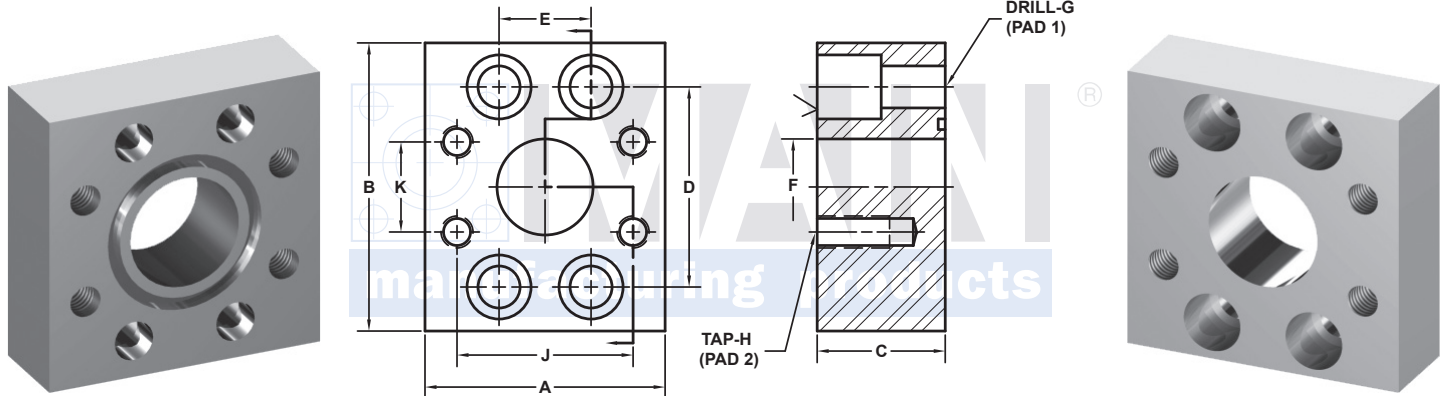
NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

FLANGE ADAPTERS

AVAILABLE AS PAD ROTATORS, REDUCERS AND INCREASERS (Not shown)

SAE J518 / ISO6162 BOLT PATTERN													61 SERIES TO 61 SERIES		
PAD 1 C61	PAD 2 C61	PART NUMBER	A	B	C	D	E	F	Gmm	Hmm	J	K	MOUNTING KIT ^①		
													PART NO.	SCREW SIZE	O-RING
1/2	1/2	1317-08M8-08M8	2.25	2.25	1.00	1.500	.688	.50	8.5	M8x1.25	1.500	.688	MKM 564	M8 x 25	210
3/4	1/2	1317-12M-08M8	2.25	2.75	1.75	1.875	.875	.50	10.5	M8x1.25	1.500	.688	MKM 502	M10 x 40	214
3/4	3/4	1317-12M-12M	2.75	2.75	1.00	1.875	.875	.75	10.5	M10x1.5	1.875	.875	MKM 5572	M10 x 25	214
1	1/2	1317-16M-08M8	2.25	3.00	1.75	2.062	1.031	.50	10.5	M8x1.25	1.500	.688	MKM 503	M10 x 40	219
1	3/4	1317-16M-12M	2.75	3.00	1.75	2.062	1.031	.75	10.5	M10x1.5	1.875	.875	MKM 503	M10 x 40	219
1	1	1317-16M-16M	3.00	3.00	1.25	2.062	1.031	1.00	10.5	M10x1.5	2.062	1.031	MKM 2535	M10 x 30	219
1 1/4	3/4	1317-20M†-12M	2.75	3.25	1.75	2.312	1.188	.75	10.5	M10x1.5	1.875	.875	MKM 3524	M10 x 40	222
1 1/4	1	1317-20M†-16M	2.81	3.25	1.75	2.312	1.188	1.00	10.5	M10x1.5	2.062	1.031	MKM 3524	M10 x 40	222
1 1/4	1 1/4	1317-20M†-20M†	3.25	3.25	1.25	2.312	1.188	1.25	10.5	M10x1.5	2.312	1.188	MKM 2567	M10 x 30	222
1 1/2	1	1317-24M‡-16M	2.75	3.75	1.75	2.750	1.406	1.00	13.0	M10x1.5	2.062	1.031	MKM 2599	M12 x 45	225
1 1/2	1 1/4	1317-24M‡-20M†	3.25	3.75	2.00	2.750	1.406	1.25	13.0	M10x1.5	2.312	1.188	MKM 3596	M12 x 50	225
1 1/2	1 1/2	1317-24M‡-24M‡	3.75	3.75	1.25	2.750	1.406	1.50	13.0	M12x1.75	2.750	1.406	MKM 5502	M12 x 30	225

MATERIAL:
Low Carbon Steel^⑤



NOTE: Model 1317, shown, is O-Ring Face by Flat Face. Model 1318, see page 66, is Flat Face by Flat Face.

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 / ISO6162 BOLT PATTERN													61 SERIES TO 61 SERIES		
PAD 1 C61	PAD 2 C61	PART NUMBER	A	B	C	D	E	F	Gmm	Hmm	J	K	MOUNTING KIT ^①		
													PART NO.	SCREW SIZE	O-RING
2	1 1/4	1317-32M‡-20M†	3.25	4.00	2.00	3.062	1.688	1.25	13.0	M10x1.5	2.312	1.188	MKM 4513	M12 x 45	228
2	1 1/2	1317-32M‡-24M‡	3.75	4.00	2.00	3.062	1.688	1.50	13.0	M12x1.75	2.750	1.406	MKM 4513	M12 x 45	228
2	2	1317-32M‡-32M‡	4.00	4.00	1.25	3.062	1.688	1.94	13.0	M12x1.75	3.062	1.688	MKM 1509	M12 x 30	228
2 1/2 ^②	1 1/2	1317-40M‡-24M‡	4.00	4.50	2.00	3.500	2.000	1.50	13.0	M12x1.75	2.750	1.406	MKM 2575	M12 x 50	232
2 1/2 ^②	2	1317-40M‡-32M‡	4.00	4.50	2.00	3.500	2.000	1.94	13.0	M12x1.75	3.062	1.688	MKM 2575	M12 x 50	232
2 1/2 ^②	2 1/2	1317-40M‡-40M‡	4.50	4.50	1.50	3.500	2.000	2.44	13.0	M12x1.75	3.500	2.000	MKM 3538	M12 x 40	232
3 ^③	2	1317-48M-32M‡	4.50	5.31	2.00	4.188	2.438	1.94	17.0	M12x1.75	3.062	1.688	MKM 1511	M16 x 50	237
3 ^③	2 1/2	1317-48M-40M‡	4.50	5.50	2.25	4.188	2.438	2.44	17.0	M12x1.75	3.500	2.000	MKM 585	M16 x 60	237
3 ^③	3	1317-48M-48M	5.50	5.50	1.75	4.188	2.438	2.94	17.0	M16x2	4.188	2.438	MKM 2538	M16 x 45	237

① Order Separately

② 2500 PSI Max

③ 2000 PSI Max

⑤ May Contain Lead

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

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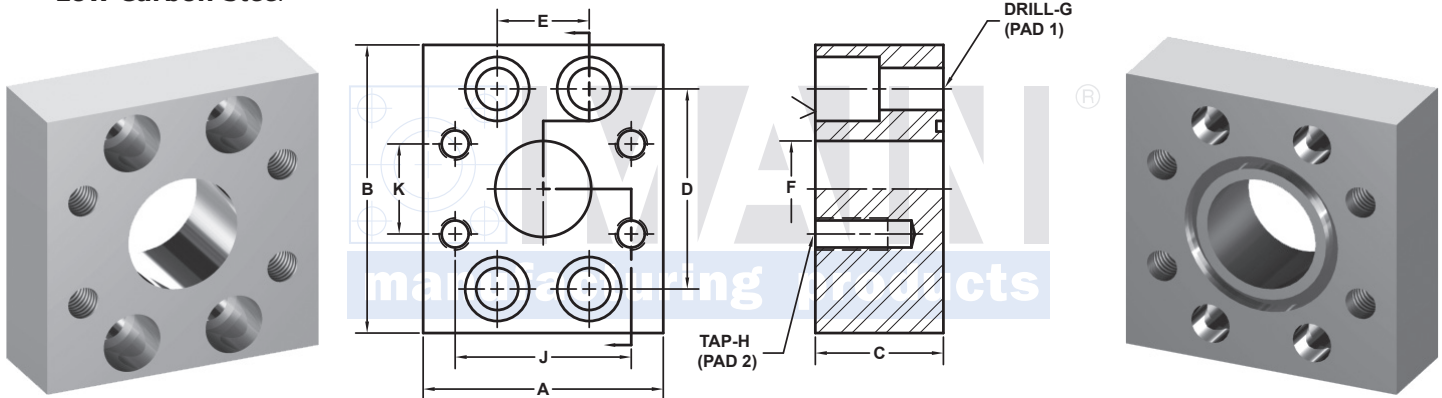
FLANGE ADAPTERS

AVAILABLE AS PAD ROTATORS, REDUCERS AND INCREASERS (Not shown)

SAE J518 / ISO6162 BOLT PATTERN													62 SERIES TO 61 SERIES ^⑥		
PAD 1 C62	PAD 2 C61	PART NUMBER	A	B	C	D	E	F	Gmm	Hmm	J	K	MOUNTING KIT ^①		
													PART NO.	SCREW SIZE	O-RING
1/2	1/2	1339-08M8-08M8	2.25	2.25	1.00	1.594	.718	.50	8.5	M8x1.25	1.500	.688	MKM 564	M8 x 25	210
3/4	1/2	1339-12M-08M8	2.25	2.81	1.75	2.000	.937	.50	10.5	M8x1.25	1.500	.688	MKM 502	M10 x 40	214
3/4	3/4	1339-12M-12M	2.75	2.81	1.00	2.000	.937	.75	10.5	M10x1.5	1.875	.875	MKM 5572	M10 x 25	214
1	1/2	1339-16M-08M8	2.25	3.19	1.75	2.250	1.093	.50	12.5	M8x1.25	1.500	.688	MKM 513	M12 x 45	219
1	3/4	1339-16M-12M	2.75	3.19	1.75	2.250	1.093	.75	12.5	M10x1.5	1.875	.875	MKM 513	M12 x 45	219
1	1	1339-16M-16M	3.00	3.19	1.25	2.250	1.093	1.00	12.5	M10x1.5	2.062	1.031	MKM 569	M12 x 30	219
1 1/4	3/4	1339-20M+-12M	2.75	3.75	1.75	2.625	1.250	.75	13.0	M10x1.5	1.875	.875	MKM 567	M12 x 35	222
1 1/4	1	1339-20M+-16M	2.75	3.75	1.75	2.625	1.250	1.00	13.0	M10x1.5	2.062	1.031	MKM 567	M12 x 35	222
1 1/4	1 1/4	1339-20M+-20M+	3.25	3.75	1.25	2.625	1.250	1.25	13.0	M10x1.5	2.312	1.188	MKM 5557	M12 x 30	222
1 1/2	1	1339-24M-16M	3.25	4.50	1.75	3.125	1.437	1.00	17.0	M10x1.5	2.062	1.031	MKM 562	M16 x 45	225
1 1/2	1 1/4	1339-24M-20M+	3.25	4.50	2.00	3.125	1.437	1.25	17.0	M10x1.5	2.312	1.188	MKM 562	M16 x 45	225
1 1/2	1 1/2	1339-24M-24M+	3.75	4.50	1.50	3.125	1.437	1.50	17.0	M12x1.75	2.750	1.406	MKM 1531	M16 x 35	225

MATERIAL:

Low Carbon Steel^⑤



NOTE: Model 1339, shown, is O-Ring Face by Flat Face. Model 1340, see page 64, is Flat Face by Flat Face.

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 / ISO6162 BOLT PATTERN													62 SERIES TO 61 SERIES ^⑥		
PAD 1 C62	PAD 2 C61	PART NUMBER	A	B	C	D	E	F	Gmm	Hmm	J	K	MOUNTING KIT ^①		
													PART NO.	SCREW SIZE	O-RING
2	1 1/4	1339-32M-20M+	4.00	5.25	2.00	3.812	1.750	1.25	21.0	M10x1.5	2.312	1.188	MKM	M20 x 50	228
2	1 1/2	1339-32M-24M+	4.00	5.25	2.00	3.812	1.750	1.50	21.0	M12x1.75	2.750	1.406	MKM	M20 x 50	228
2	2	1339-32M-32M+	4.00	5.25	1.75	3.812	1.750	1.94	21.0	M12x1.75	3.062	1.688	MKM 563	M20 x 45	228
2 1/2	1 1/2	1339-40M-24M+	5.00	6.88	2.00	4.875	2.312	1.50	25.5	M12x1.75	2.750	1.406	MKM	M24 x 50	232
2 1/2	2	1339-40M-32M+	5.00	6.88	2.00	4.875	2.312	1.94	25.5	M12x1.75	3.062	1.688	MKM	M24 x 50	232
2 1/2	2 1/2 ^②	1339-40M-40M+	5.00	6.88	2.00	4.875	2.312	2.44	25.5	M12x1.75	3.500	2.000	MKM	M24 x 50	232
3	2	1339-48M-32M+	6.00	8.50	2.50	6.000	2.812	1.94	32.0	M12x1.75	3.062	1.688	MKM 518	M30 x 110	237
3	2 1/2 ^②	1339-48M-40M+	6.00	8.50	2.50	6.000	2.812	2.44	32.0	M12x1.75	3.500	2.000	MKM 518	M30 x 110	237
3	3 ^③	1339-48M-48M	6.00	8.50	2.50	6.000	2.812	2.94	32.0	M16x2	4.188	2.438	MKM 1514	M30 x 70	237

① Order Separately

② 2500 PSI Max

③ 2000 PSI Max

⑤ May Contain Lead

⑥ **CAUTION:** Flange Adapter Pressure Rating CANNOT Exceed 61 Series Pad Connection.

62 NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. + Also Available for M12 Bolts - Also Available for M14 Bolts

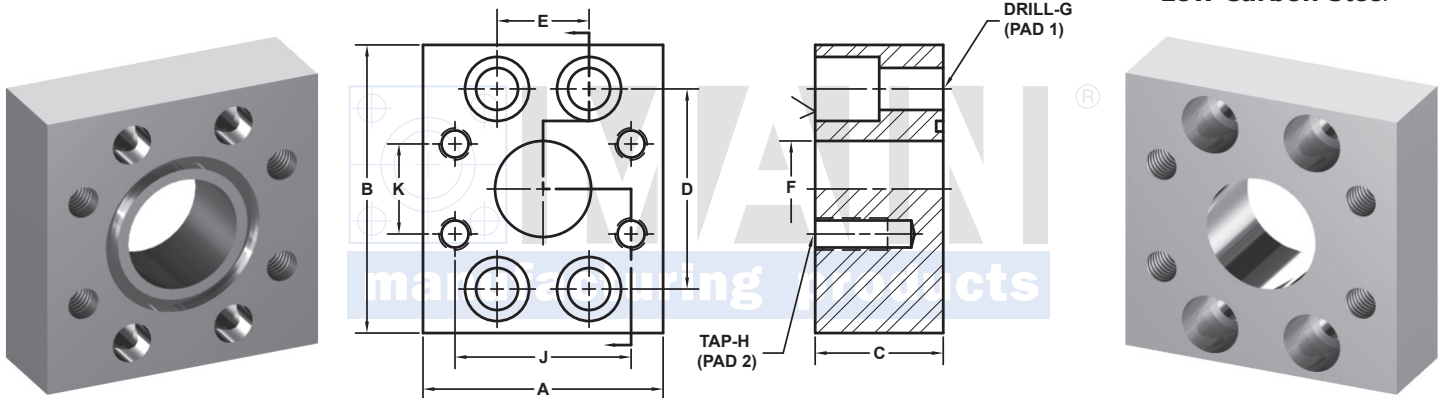
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FLANGE ADAPTERS

AVAILABLE AS PAD ROTATORS, REDUCERS AND INCREASERS (Not shown)

SAE J518 / ISO6162 BOLT PATTERN													62 SERIES TO 62 SERIES		
PAD 1 C62	PAD 2 C62	PART NUMBER	A	B	C	D	E	F	Gmm	Hmm	J	K	MOUNTING KIT ^①		
													PART NO.	SCREW SIZE	O-RING
1/2	1/2	1341-08M8-08M8	2.25	2.25	1.00	1.594	.718	.50	8.5	M8x1.25	1.594	.718	MKM 564	M8 x 25	210
3/4	1/2	1341-12M-08M8	2.25	2.81	1.50	2.000	.937	.50	10.5	M8x1.25	1.594	.718	MKM 502	M10 x 40	214
3/4	3/4	1341-12M-12M	3.00	3.00	1.00	2.000	.937	.75	10.5	M10x1.5	2.000	.937	MKM 5572	M10 x 25	214
1	1/2	1341-16M-08M8	2.25	3.19	1.50	2.250	1.093	.50	12.5	M8x1.25	1.594	.718	MKM 513	M12 x 45	219
1	3/4	1341-16M-12M	3.00	3.19	1.75	2.250	1.093	.75	12.5	M10x1.5	2.000	.937	MKM 513	M12 x 45	219
1	1	1341-16M-16M	3.25	3.25	1.25	2.250	1.093	1.00	12.5	M12x1.75	2.250	1.093	MKM 569	M12 x 30	219
1 1/4	3/4	1341-20M+-12M	2.81	3.75	1.75	2.625	1.250	.75	13.0	M10x1.5	2.000	.937	MKM 1527	M12 x 40	222
1 1/4	1	1341-20M+-16M	3.25	3.75	1.75	2.625	1.250	1.00	13.0	M12x1.75	2.250	1.093	MKM 1527	M12 x 40	222
1 1/4	1 1/4	1341-20M+-20M+	3.75	3.75	1.25	2.625	1.250	1.25	13.0	M12x1.75	2.625	1.250	MKM 5557	M12 x 30	222
1 1/2	1	1341-24M-16M	3.25	4.50	2.00	3.125	1.437	1.00	17.0	M12x1.75	2.250	1.093	MKM 562	M16 x 45	225
1 1/2	1 1/4	1341-24M-20M+	3.75	4.50	2.00	3.125	1.437	1.25	17.0	M12x1.75	2.625	1.250	MKM 562	M16 x 45	225
1 1/2	1 1/2	1341-24M-24M	4.50	4.50	1.75	3.125	1.437	1.50	17.0	M16x2	3.125	1.437	MKM 1531	M16 x 35	225

MATERIAL:
Low Carbon Steel^⑤



NOTE: Model 1341, shown, is O-Ring Face by Flat Face. Model 1342, see page 66, is Flat Face by Flat Face.

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 / ISO6162 BOLT PATTERN													62 SERIES TO 62 SERIES		
PAD 1 C62	PAD 2 C62	PART NUMBER	A	B	C	D	E	F	Gmm	Hmm	J	K	MOUNTING KIT ^①		
													PART NO.	SCREW SIZE	O-RING
2	1 1/4	1341-32M-20M+	4.00	5.25	2.00	3.812	1.750	1.25	21.0	M12x1.75	2.625	1.250	MKM	M20 x 50	228
2	1 1/2	1341-32M-24M	4.50	5.25	2.25	3.812	1.750	1.50	21.0	M16x2	3.125	1.437	MKM	M20 x 50	228
2	2	1341-32M-32M	5.25	5.25	1.75	3.812	1.750	1.94	21.0	M20x2.5	3.812	1.750	MKM 563	M20 x 45	228
2 1/2	1 1/2	1341-40M-24M	5.00	7.00	2.50	4.875	2.312	1.50	25.5	M16x2	3.125	1.437	MKM	M24 x 50	232
2 1/2	2	1341-40M-32M	5.25	7.00	2.50	4.875	2.312	1.94	25.5	M20x2.5	3.812	1.750	MKM	M24 x 50	232
2 1/2	2 1/2	1341-40M-40M	6.88	7.00	2.00	4.875	2.312	2.44	25.5	M24x3	4.875	2.312	MKM	M24 x 50	232
3	2	1341-48M-32M	6.00	8.50	2.50	6.000	2.812	1.94	32.0	M20x2.5	3.812	1.750	MKM 1514	M30 x 70	237
3	2 1/2	1341-48M-40M	7.00	8.50	2.50	6.000	2.812	2.44	32.0	M24x3	4.875	2.312	MKM 1514	M30 x 70	237
3	3	1341-48M-48M	8.50	8.50	2.50	6.000	2.812	2.94	32.0	M30x3.5	6.000	2.812	MKM 1514	M30 x 70	237

① Order Separately

⑤ May Contain Lead

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

‡ Also Available for M14 Bolts

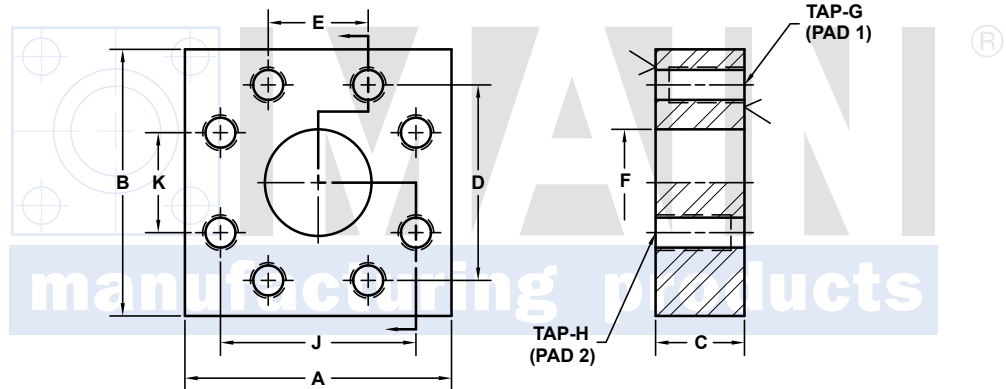
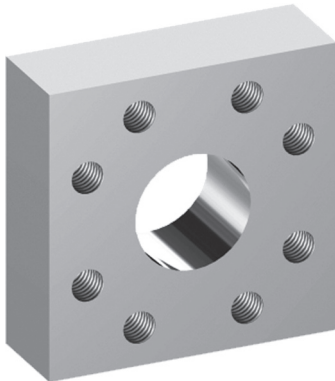
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FLANGE ADAPTERS

AVAILABLE AS PAD ROTATORS AND REDUCERS

SAE J518 / ISO6162 BOLT PATTERN							61 SERIES® TO 62 SERIES						
PAD 1 C61	PAD 2 C62	PART NUMBER	A	B	C	D	E	F	Gmm	Hmm	J	K	
1/2	1/2	1316-08M8-08M8	2.25	2.25	1.00	1.500	.688	.50	M8x1.25	M8x1.25	1.594	.718	
3/4	3/4	1316-12M-12M	2.81	2.75	1.00	1.875	.875	.75	M10x1.5	M10x1.5	2.000	.937	
1	1	1316-16M-16M	3.19	3.00	1.25	2.062	1.031	1.00	M10x1.5	M12x1.75	2.250	1.093	
1 1/4	1 1/4	1316-20M†-20M†	3.75	3.25	1.25	2.312	1.188	1.25	M10x1.5	M12x1.75	2.625	1.250	
1 1/2	1 1/4	1316-24M†-20M†	3.75	3.75	1.75	2.750	1.406	1.50	M12x1.75	M12x1.75	2.625	1.250	
1 1/2	1 1/2	1316-24M†-24M	4.50	3.75	1.50	2.750	1.406	1.50	M12x1.75	M16x2	3.125	1.437	
2	1 1/2	1316-32M†-24M	4.50	4.00	1.50	3.062	1.688	1.94	M12x1.75	M16x2	3.125	1.437	
2	2	1316-32M†-32M	5.25	4.00	1.75	3.062	1.688	1.94	M12x1.75	M20x2.5	3.812	1.750	
2 1/2 ^②	2 1/2	1316-40M†-40M	6.88	5.00	2.00	3.500	2.000	2.44	M12x1.75	M24x3	4.875	2.312	
3 ^③	3	1316-48M-48M	8.50	6.00	2.50	4.188	2.438	2.94	M16x2	M30x3.5	6.000	2.812	

MATERIAL:
Low Carbon Steel^⑤



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SAE J518 / ISO6162 BOLT PATTERN							62 SERIES TO 61 SERIES®						
PAD 1 C62	PAD 2 C61	PART NUMBER	A	B	C	D	E	F	Gmm	Hmm	J	K	
3/4	1/2	1340-12M-08M	2.25	2.81	1.75	2.000	.937	.50	M10x1.5	M8x1.25	1.500	.688	
1	3/4	1340-16M-12M	2.75	3.19	1.75	2.250	1.093	.75	M12x1.75	M10x1.5	1.875	.875	
1 1/4	1	1340-20M†-16M	2.75	3.75	1.75	2.625	1.250	1.00	M12x1.75	M10x1.5	2.062	1.031	
1 1/2	1 1/4	1340-24M-20M†	3.25	4.50	2.00	3.125	1.437	1.25	M16x2	M10x1.5	2.312	1.188	
2	1 1/2	1340-32M-24M†	4.00	5.25	2.00	3.812	1.750	1.50	M20x2.5	M12x1.75	2.750	1.406	
2 1/2	2	1340-40M-32M†	5.00	6.88	2.00	4.875	2.312	1.94	M24x3	M12x1.75	3.062	1.688	
3	2 1/2 ^②	1340-48M-40M†	6.00	8.50	2.50	6.000	2.812	2.44	M30x3.5	M12x1.75	3.500	2.000	

② 2500 PSI Max ③ 2000 PSI Max

⑤ May Contain Lead

⑥ **CAUTION:** Flange Adapter Pressure Rating CANNOT Exceed 61 Series Pad Connection.

64 NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

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STAINLESS STEEL PART NUMBERING

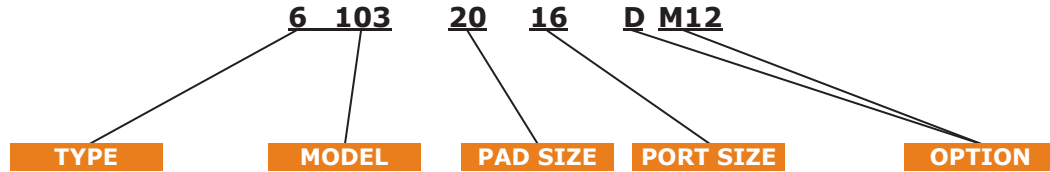
CATALOG PART NUMBERING SYSTEM

To change any **Main Manufacturing Products'** carbon steel part number in this catalog to stainless steel, add 5 to the first digit and SS Grade Option to the end of the part number:

Carbon Steel Part Number: **1103 - 20 - 16 M12**

304/304L Stainless Steel Part Number: **6103 - 20 - 16 BM12**

316/316L Stainless Steel Part Number: **6103 - 20 - 16 DM12**



Stainless Steel

Grade Specified by Option Code

6 = Standard - No Gauge Port

7 = 1/4" NPTF Gauge Port

8 = -4 ORB (7/16-20) Gauge Port

Carbon Steel

1 = Standard - No Gauge Port

2 = 1/4" NPTF Gauge Port

3 = -4 ORB (7/16-20) Gauge Port

Indicated in 1/16ths

08 = 1/2"

12 = 3/4"

16 = 1"

20 = 1 1/4"

24 = 1 1/2"

32 = 2"

40 = 2 1/2"

48 = 3"

56 = 3 1/2"

64 = 4"

80 = 5"

96 = 6"

00 = NO PORT

SS Grade

B = 304/304L

D = 316/316L

Metric

M** = Metric and screw size

EXAMPLE:

M12 - for use with M12 screws

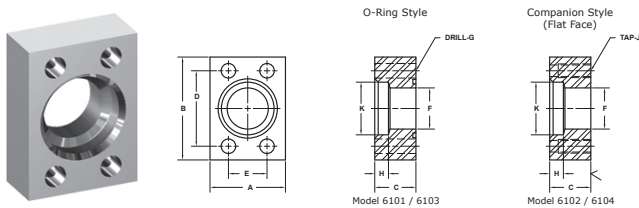
SOCKET WELD PIPE IN-LINE FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN												
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	WT
1/2	1/2	6101-08-08BM8 6102-08-08BM8	1.50	2.12	.75	1.500	.688	.50	8.5 M8x1.25	.38	.860	.5
3/4	3/4	6101-12-12BM10 6102-12-12BM10	1.75	2.62	1.00	1.875	.875	.75	10.5 M10x1.5	.50	1.070	1.0
1	1	6101-16-16BM12 6102-16-16BM12	2.00	2.82	1.00	2.062	1.031	1.00	10.5 M10x1.5	.50	1.335	1.2
1 1/4	1 1/4	6101-20-20BM10 6102-20-20BM10	2.50	3.19	1.00	2.312	1.188	1.25	10.5 M10x1.5	.50	1.680	1.5
1 1/2	1 1/2	6101-24-24BM12 6102-24-24BM12	2.75	3.75	1.25	2.750	1.406	1.50	13.0 M12x1.75	.50	1.920	2.5
2	2	6101-32-32BM12 6102-32-32BM12	3.25	4.00	1.50	3.062	1.688	1.94	13.0 M12x1.75	.62	2.411	3.6
2 1/2	2 1/2	6101-40-40BM12 6102-40-40BM12	4.00	4.50	1.75	3.500	2.000	2.44	13.0 M12x1.75	.75	2.911	5.7
3	3	6101-48-48BM16 6102-48-48BM16	4.50	5.31	2.00	4.188	2.438	2.94	17.0 M16x2	.75	3.540	8.3
3 1/2	3 1/2	6101-56-56BM16 6102-56-56BM16	5.00	6.00	1.50	4.750	2.750	3.44	17.0 M16x2	.75	4.045	7.5
4	4	6101-64-64BM16 6102-64-64BM16	5.50	6.38	1.50	5.125	3.062	3.94	17.0 M16x2	.75	4.550	8.3
5	5	6101-80-80BM16 6102-80-80BM16	7.00	7.25	2.00	6.000	3.625	4.94	17.0 M16x2	.75	5.635	16.0

MATERIAL:
304L Stainless

MOUNTING KITS listed contain carbon steel bolts and Buna N O-Ring. To specify stainless Grade 18-8 bolts, add an SS at the end of the kit number (MK 501SS).

Please note that using stainless steel bolts may reduce the pressure rating of the assembly.

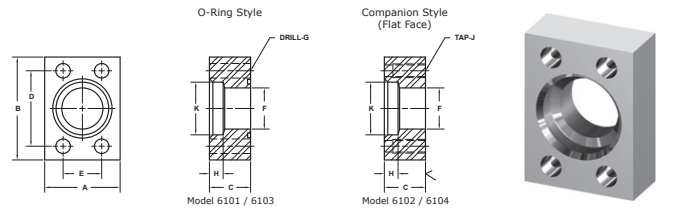


SOCKET WELD PIPE IN-LINE FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN												
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	WT
1/2	1/2	6101-08-08BM8 6102-08-08BM8	1.50	2.12	.75	1.500	.688	.50	8.5 M8x1.25	.38	.860	.5
3/4	3/4	6101-12-12BM10 6102-12-12BM10	1.75	2.62	1.00	1.875	.875	.75	10.5 M10x1.5	.50	1.070	1.0
1	1	6101-16-16BM12 6102-16-16BM12	2.00	2.82	1.00	2.062	1.031	1.00	10.5 M10x1.5	.50	1.335	1.2
1 1/4	1 1/4	6101-20-20BM10 6102-20-20BM10	2.50	3.19	1.00	2.312	1.188	1.25	10.5 M10x1.5	.50	1.680	1.5
1 1/2	1 1/2	6101-24-24BM12 6102-24-24BM12	2.75	3.75	1.25	2.750	1.406	1.50	13.0 M12x1.75	.50	1.920	2.5
2	2	6101-32-32BM12 6102-32-32BM12	3.25	4.00	1.50	3.062	1.688	1.94	13.0 M12x1.75	.62	2.411	3.6
2 1/2	2 1/2	6101-40-40BM12 6102-40-40BM12	4.00	4.50	1.75	3.500	2.000	2.44	13.0 M12x1.75	.75	2.911	5.7
3	3	6101-48-48BM16 6102-48-48BM16	4.50	5.31	2.00	4.188	2.438	2.94	17.0 M16x2	.75	3.540	8.3
3 1/2	3 1/2	6101-56-56BM16 6102-56-56BM16	5.00	6.00	1.50	4.750	2.750	3.44	17.0 M16x2	.75	4.045	7.5
4	4	6101-64-64BM16 6102-64-64BM16	5.50	6.38	1.50	5.125	3.062	3.94	17.0 M16x2	.75	4.550	8.3
5	5	6101-80-80BM16 6102-80-80BM16	7.00	7.25	2.00	6.000	3.625	4.94	17.0 M16x2	.75	5.635	16.0

MOUNTING KITS listed contain carbon steel bolts and Buna N O-Ring. To specify stainless Grade 18-8 bolts, add an SS at the end of the kit number (MK 501SS).

Please note that using stainless steel bolts may reduce the pressure rating of the assembly.



MATERIAL:
316L Stainless

SAE J518 62 SERIES / ISO6162-2 PATTERN												
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	WT
1/2	1/2	6103-08-08BM8 6104-08-08BM8	1.75	2.22	1.00	1.594	.718	.50	8.5 M8x1.25	.50	.860	.8
3/4	3/4	6103-12-12BM10 6104-12-12BM10	2.00	2.81	1.00	2.000	.937	.75	10.5 M10x1.5	.50	1.070	1.3
1	1	6103-16-16BM12 6104-16-16BM12	2.25	3.19	1.00	2.250	1.093	1.00	12.5 M12x1.75	.50	1.335	1.5
1 1/4	1 1/4	6103-20-20BM10 6104-20-20BM10	2.75	3.75	1.25	2.625	1.250	1.25	12.5 M12x1.75	.50	1.680	2.7
1 1/2	1 1/2	6103-24-24BM16 6104-24-24BM16	3.25	4.50	1.50	3.125	1.437	1.50	17.0 M16x2	.50	1.920	4.8
2	2	6103-32-32BM20 6104-32-32BM20	4.00	5.25	1.75	3.812	1.750	1.94	21.0 M20x2.5	.62	2.411	7.8
2 1/2	2 1/2	6103-40-40BM24 6104-40-40BM24	5.00	6.88	2.00	4.875	2.312	2.44	25.5 M24x3	.62	2.911	15.2
3	3	6103-48-48BM30 6104-48-48BM30	6.00	8.50	2.50	6.000	2.812	2.94	32.0 M30x3.5	.62	3.540	28.0

Order Separately 2500 PSI Max 2000 PSI Max 500 PSI Max

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

SAE J518 62 SERIES / ISO6162-2 PATTERN												
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm Jmm	H	K	WT
1/2	1/2	6103-08-08BM8 6104-08-08BM8	1.75	2.22	1.00	1.594	.718	.50	8.5 M8x1.25	.50	.860	.8
3/4	3/4	6103-12-12BM10 6104-12-12BM10	2.00	2.81	1.00	2.000	.937	.75	10.5 M10x1.5	.50	1.070	1.3
1	1	6103-16-16BM12 6104-16-16BM12	2.25	3.19	1.00	2.250	1.093	1.00	12.5 M12x1.75	.50	1.335	1.5
1 1/4	1 1/4	6103-20-20BM10 6104-20-20BM10	2.75	3.75	1.25	2.625	1.250	1.25	12.5 M12x1.75	.50	1.680	2.7
1 1/2	1 1/2	6103-24-24BM16 6104-24-24BM16	3.25	4.50	1.50	3.125	1.437	1.50	17.0 M16x2	.50	1.920	4.8
2	2	6103-32-32BM20 6104-32-32BM20	4.00	5.25	1.75	3.812	1.750	1.94	21.0 M20x2.5	.62	2.411	7.8
2 1/2	2 1/2	6103-40-40BM24 6104-40-40BM24	5.00	6.88	2.00	4.875	2.312	2.44	25.5 M24x3	.62	2.911	15.2
3	3	6103-48-48BM30 6104-48-48BM30	6.00	8.50	2.50	6.000	2.812	2.94	32.0 M30x3.5	.62	3.540	28.0

Order Separately 2500 PSI Max 2000 PSI Max 500 PSI Max

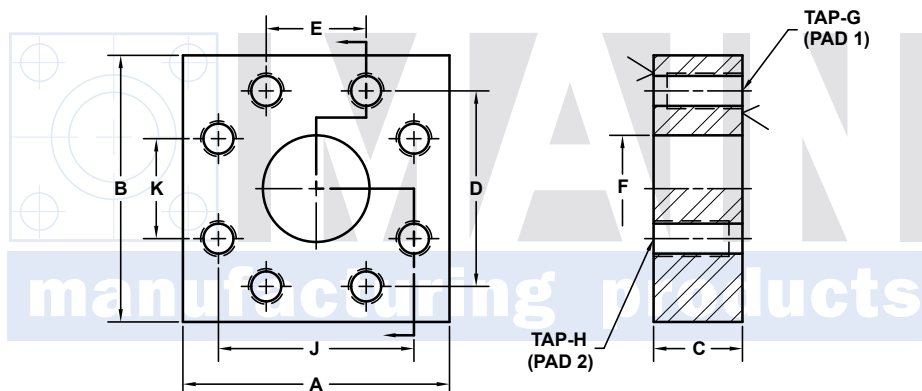
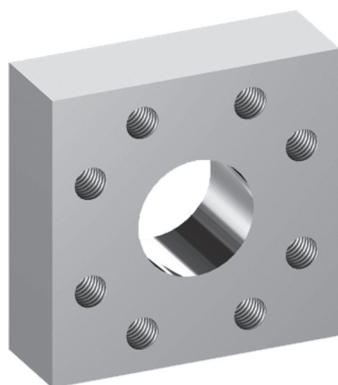
NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

CONNECTOR BLOCKS - FA STYLE

AVAILABLE AS PAD ROTATORS AND REDUCERS (Not shown)

SAE J518 / ISO6162 BOLT PATTERN								61 SERIES TO 61 SERIES					
PAD 1 C61	PAD 2 C61	PART NUMBER	A	B	C	D	E	F	Gmm	Hmm	J	K	
1/2	1/2	1318-08M8-08M8	2.25	2.25	1.00	1.500	.688	.50	M8x1.25	M8x1.25	1.500	.688	
3/4	3/4	1318-12M-12M	2.75	2.75	1.00	1.875	.875	.75	M10x1.5	M10x1.5	1.875	.875	
1	1	1318-16M-16M	3.00	3.00	1.25	2.062	1.031	1.00	M10x1.5	M10x1.5	2.062	1.031	
1 1/4	1 1/4	1318-20M†-20M†	3.25	3.25	1.25	2.312	1.188	1.25	M10x1.5	M10x1.5	2.312	1.188	
1 1/2	1 1/2	1318-24M‡-24M‡	3.75	3.75	1.25	2.750	1.406	1.50	M12x1.75	M12x1.75	2.750	1.406	
2	2	1318-32M‡-32M‡	4.00	4.00	1.25	3.062	1.688	1.94	M12x1.75	M12x1.75	3.062	1.688	
2 1/2 ^②	2 1/2	1318-40M‡-40M‡	4.50	4.50	1.50	3.500	2.000	2.44	M12x1.75	M12x1.75	3.500	2.000	
3 ^③	3	1318-48M-48M	5.50	5.50	1.75	4.188	2.438	2.94	M16x2	M16x2	4.188	2.438	

MATERIAL:
Low Carbon Steel^⑤



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SAE J518 / ISO6162 BOLT PATTERN								62 SERIES TO 62 SERIES					
PAD 1 C62	PAD 2 C62	PART NUMBER	A	B	C	D	E	F	Gmm	Hmm	J	K	
1/2	1/2	1342-08M8-08M8	2.25	2.25	1.00	1.594	.718	.50	M18x1.25	M8x1.25	1.594	.718	
3/4	3/4	1342-12M-12M	3.00	3.00	1.00	2.000	.937	.75	M10x1.5	M10x1.5	2.000	.937	
1	1	1342-16M-16M	3.25	3.25	1.25	2.250	1.093	1.00	M12x1.75	M12x1.75	2.250	1.093	
1 1/4	1 1/4	1342-20M‡-20M‡	3.75	3.75	1.25	2.625	1.250	1.25	M12x1.75	M12x1.75	2.625	1.250	
1 1/2	1 1/2	1342-24M-24M	4.50	4.50	1.75	3.125	1.437	1.50	M16x2	M16x2	3.125	1.437	
2	2	1342-32M-32M	5.25	5.25	1.75	3.812	1.750	1.94	M20x2.5	M20x2.5	3.812	1.750	

② 2500 PSI Max ③ 2000 PSI Max

⑤ May Contain Lead

⑥ **CAUTION:** Flange Adapter Pressure Rating CANNOT Exceed 61 Series Pad Connection.

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

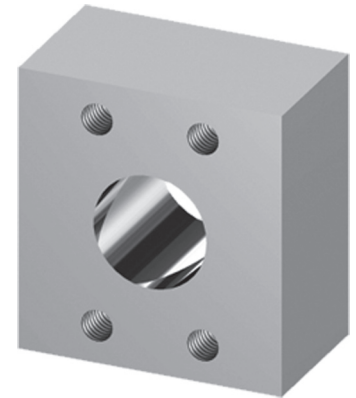
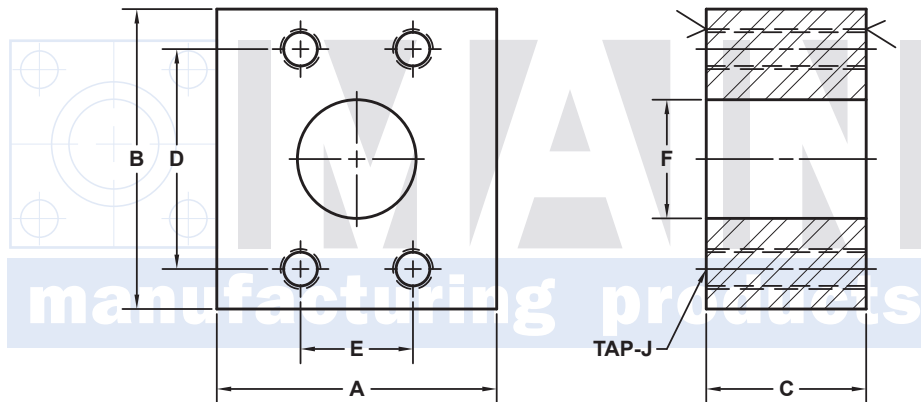
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CONNECTOR BLOCKS

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Jmm	WT
1/2	NA	1304-08-08M8	2.00	2.12	1.75	1.500	.688	.50	M8x1.25	1.8
3/4	NA	1304-12-12M10	2.00	2.62	1.75	1.875	.875	.75	M10x1.5	2.1
1	NA	1304-16-16M10	2.25	2.75	1.75	2.062	1.031	1.00	M10x1.5	2.4
1 1/4	NA	1304-20-20M10†	3.00	3.19	2.00	2.312	1.188	1.25	M10x1.5	4.4
1 1/2	NA	1304-24-24M12‡	3.50	3.75	2.25	2.750	1.406	1.50	M12x1.75	5.9
2	NA	1304-32-32M12‡	3.88	4.00	2.25	3.062	1.688	1.94	M12x1.75	6.6
2 1/2 ^②	NA	1304-40-40M12‡	4.38	4.50	2.25	3.500	2.000	2.44	M12x1.75	9.1
3 ^③	NA	1304-48-48M16	5.00	5.31	2.50	4.188	2.438	2.94	M16x2	11.9

MATERIAL:
Low Carbon Steel[®]



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SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Jmm	WT
1/2	NA	1306-08-08M8	2.00	2.22	1.75	1.594	.718	.50	M8x1.25	1.9
3/4	NA	1306-12-12M10	2.50	2.81	2.00	2.000	.937	.75	M10x1.5	3.4
1	NA	1306-16-16M12	2.75	3.19	2.00	2.250	1.093	1.00	M12x1.75	4.2
1 1/4	NA	1306-20-20M12‡	3.00	3.75	2.00	2.625	1.250	1.25	M12x1.75	5.2
1 1/2	NA	1306-24-24M16	3.88	4.50	2.88	3.125	1.437	1.50	M16x2	12.1
2	NA	1306-32-32M20	4.50	5.25	3.00	3.812	1.750	1.94	M20x2.5	16.2

② 2500 PSI Max ③ 2000 PSI Max

⑤ May Contain Lead

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

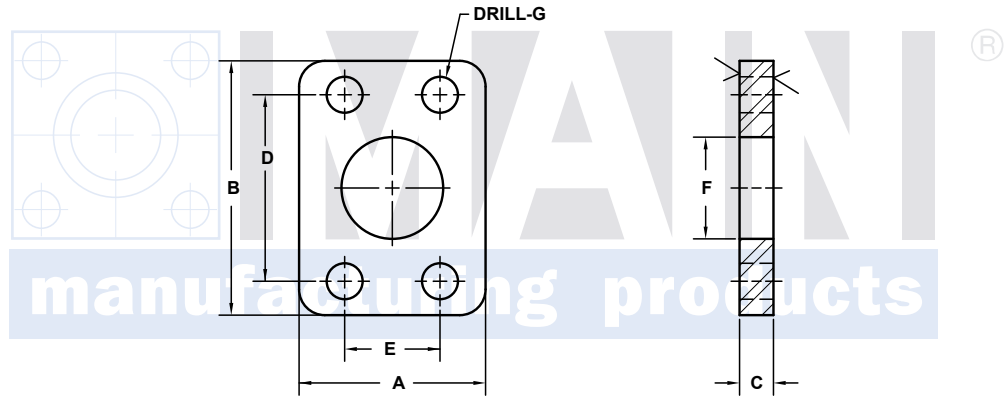
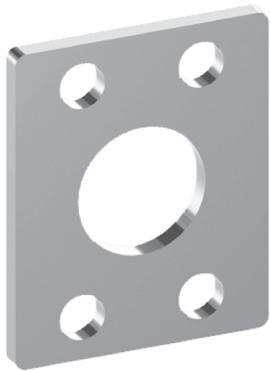
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'MAIN' 1/4" THICK CONNECTOR PLATES

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm			WT
1/2	NA	1321-08-08M8	1.75	2.12	.25	1.500	.688	.50	8.5			.4
3/4	NA	1321-12-12M10	2.00	2.62	.25	1.875	.875	.75	10.5			.6
1	NA	1321-16-16M10	2.25	2.82	.25	2.062	1.031	1.00	10.5			.7
1 1/4	NA	1321-20-20M10†	2.75	3.19	.25	2.312	1.188	1.25	10.5			1.0
1 1/2	NA	1321-24-24M12‡	3.00	3.75	.25	2.750	1.406	1.50	13.0			1.2
2	NA	1321-32-32M12‡	3.50	4.00	.25	3.062	1.688	1.94	13.0			1.4
2 1/2	NA	1321-40-40M12‡	4.25	4.50	.25	3.500	2.000	2.44	13.0			2.0
3	NA	1321-48-48M16	4.75	5.31	.25	4.188	2.438	2.94	17.0			2.4

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

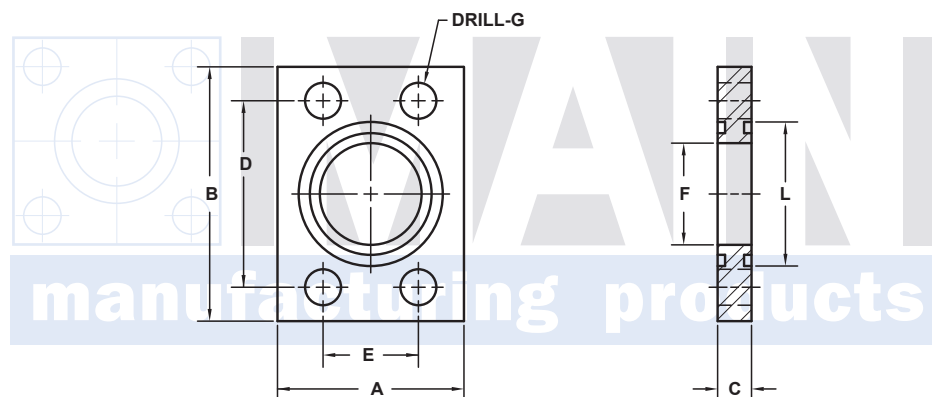
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm			WT
1/2	NA	1322-08-08M8	2.00	2.22	.25	1.594	.718	.50	8.5			.5
3/4	NA	1322-12-12M10	2.25	2.81	.25	2.000	.937	.75	10.5			.7
1	NA	1322-16-16M12	2.50	3.19	.25	2.250	1.093	1.00	12.5			1.0
1 1/4	NA	1322-20-20M12‡	3.00	3.75	.25	2.625	1.250	1.25	13.0			1.3
1 1/2	NA	1322-24-24M16	3.50	4.50	.25	3.125	1.437	1.50	17.0			1.9
2	NA	1322-32-32M20	4.25	5.25	.25	3.812	1.750	1.94	21.0			2.6

DOUBLE O-RING ADAPTERS

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm	L	O-RING ^①	WT
1/2	NA	1275-08-08M8	1.50	2.12	.50	1.500	.688	.50	8.5	1.000	210	.3
3/4	NA	1275-12-12M10	1.75	2.62	.50	1.875	.875	.75	10.5	1.250	214	.5
1	NA	1275-16-16M10	2.00	2.82	.50	2.062	1.031	1.00	10.5	1.562	219	.6
1 1/4	NA	1275-20-20M10†	2.50	3.19	.50	2.312	1.188	1.25	10.5	1.750	222	.8
1 1/2	NA	1275-24-24M12‡	2.75	3.75	.50	2.750	1.406	1.50	13.0	2.125	225	1.0
2	NA	1275-32-32M12‡	3.25	4.00	.50	3.062	1.688	1.94	13.0	2.500	228	1.2
2 1/2	NA	1275-40-40M12‡	4.00	4.50	.50	3.500	2.000	2.44	13.0	3.000	232	1.7
3	NA	1275-48-48M16	4.50	5.31	.50	4.188	2.438	2.94	17.0	3.625	237	2.1

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm	L	O-RING ^①	WT
1/2	NA	1276-08-08M8	1.75	2.22	.50	1.594	.718	.50	8.5	1.000	210	.4
3/4	NA	1276-12-12M10	2.00	2.81	.50	2.000	.937	.75	10.5	1.250	214	.6
1	NA	1276-16-16M12	2.25	3.19	.50	2.250	1.093	1.00	12.5	1.562	219	.8
1 1/4	NA	1276-20-20M12‡	2.75	3.75	.50	2.625	1.250	1.25	13.0	1.750	222	1.1
1 1/2	NA	1276-24-24M16	3.25	4.50	.50	3.125	1.437	1.50	17.0	2.125	225	1.6
2	NA	1276-32-32M20	4.00	5.25	.50	3.812	1.750	1.94	21.0	2.500	228	2.2

① Includes 2 Buna-N O-Rings

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts

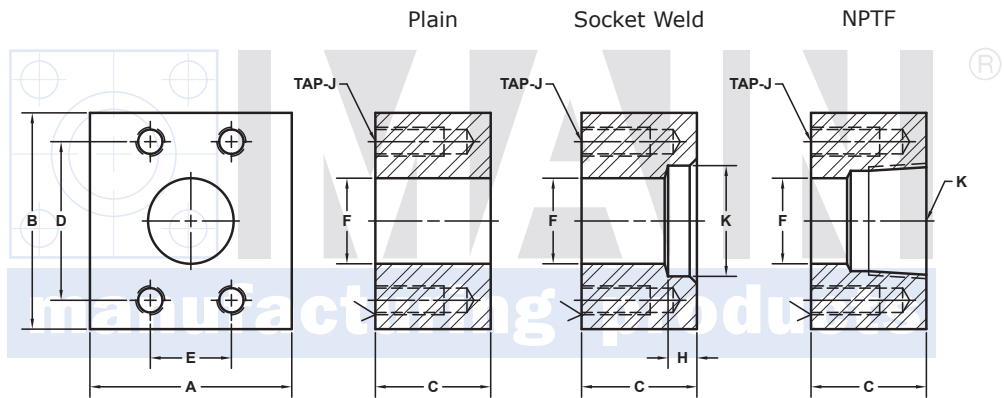
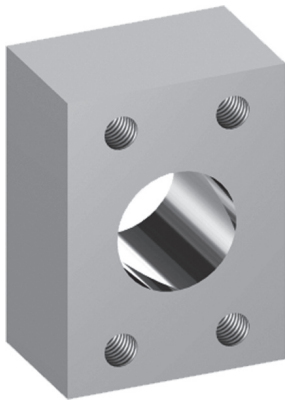
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RESERVOIR ADAPTERS

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Jmm	H	K	WT
1/2	1/2	1209-08-08M8	1.50	2.12	1.50	1.500	.688	.50	M8x1.25	NA	NA	1.2
		1563-08-08M8								.38	.860	1.2
		1565-08-08M8								NA	1/2" NPTF	1.2
3/4	3/4	1209-12-12M10	1.75	2.62	1.50	1.875	.875	.75	M10x1.5	NA	NA	1.7
		1563-12-12M10								.50	1.070	1.6
		1565-12-12M10								NA	3/4" NPTF	1.6
1	1	1209-16-16M10	2.00	2.82	1.50	2.062	1.031	1.00	M10x1.5	NA	NA	2.0
		1563-16-16M10								.50	1.335	1.9
		1565-16-16M10								NA	1" NPTF	1.9
1 1/4	1 1/4	1209-20-20M10†	2.50	3.19	1.75	2.312	1.188	1.25	M10x1.5	NA	NA	3.2
		1563-20-20M10†								.50	1.680	3.0
		1565-20-20M10†								NA	1 1/4" NPTF	3.0
1 1/2	1 1/2	1209-24-24M12‡	2.75	3.75	1.75	2.750	1.406	1.50	M12x1.75	NA	NA	4.0
		1563-24-24M12‡								.50	1.920	3.8
		1565-24-24M12‡								NA	1 1/2" NPTF	3.8
2	2	1209-32-32M12‡	3.25	4.00	1.75	3.062	1.688	1.94	M12x1.75	NA	NA	4.8
		1563-32-32M12‡								.62	2.411	4.4
		1565-32-32M12‡								NA	2" NPTF	4.4
2 1/2 ^②	2 1/2	1209-40-40M12‡	4.00	4.50	2.00	3.500	2.000	2.44	M12x1.75	NA	NA	7.3
		1563-40-40M12‡								.75	2.911	6.8
		1565-40-40M12‡								NA	2 1/2" NPTF	7.0
3 ^③	3	1209-48-48M16	4.50	5.31	2.25	4.188	2.438	2.94	M16x2	NA	NA	10.5
		1563-48-48M16								.75	3.540	9.8
		1565-48-48M16								NA	3" NPTF	9.7

MATERIAL:
Low Carbon Steel



Model 1209 / 1210 Model 1563 / 1564 Model 1565 / 1566

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SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Jmm	H	K	WT
1/2	1/2	1210-08-08M8	1.75	2.22	1.50	1.594	.718	.50	M8x1.25	NA	NA	1.5
		1564-08-08M8								.50	.860	1.4
		1566-08-08M8								NA	1/2" NPTF	1.5
3/4	3/4	1210-12-12M10	2.00	2.81	1.75	2.000	.937	.75	M10x1.5	NA	NA	2.5
		1564-12-12M10								.50	1.070	2.4
		1566-12-12M10								NA	3/4" NPTF	2.4
1	1	1210-16-16M12	2.25	3.19	1.75	2.250	1.093	1.00	M12x1.75	NA	NA	3.0
		1564-16-16M12								.50	1.335	2.9
		1566-16-16M12								NA	1" NPTF	2.9
1 1/4	1 1/4	1210-20-20M12‡	2.75	3.75	1.75	2.625	1.250	1.25	M12x1.75	NA	NA	4.3
		1564-20-20M12‡								.50	1.680	4.1
		1566-20-20M12‡								NA	1 1/4" NPTF	4.1
1 1/2	1 1/2	1210-24-24M16	3.25	4.50	2.25	3.125	1.437	1.50	M16x2	NA	NA	7.8
		1564-24-24M16								.50	1.920	7.6
		1566-24-24M16								NA	1 1/2" NPTF	7.5
2	2	1210-32-32M20	4.00	5.25	2.50	3.812	1.750	1.94	M20x2.5	NA	NA	12.0
		1564-32-32M20								.62	2.411	11.7
		1566-32-32M20								NA	2" NPTF	11.7

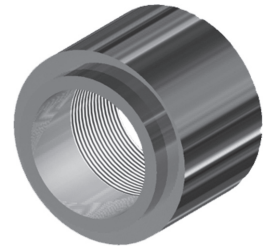
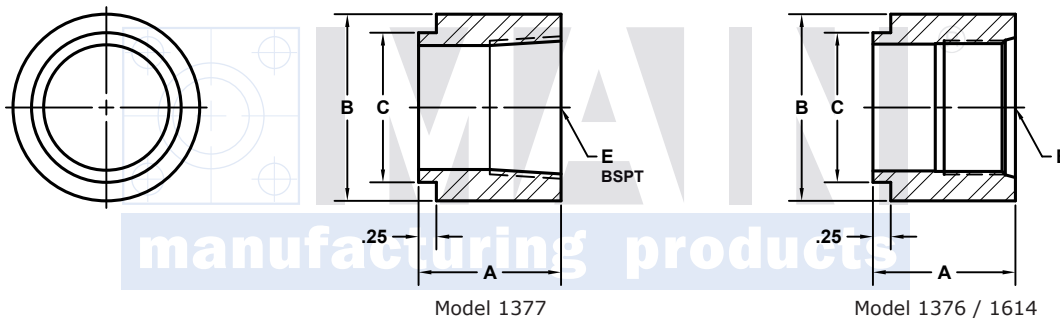
② 2500 PSI Max ③ 2000 PSI Max

'MAIN' TANK PORT ADAPTERS

BSPT TANK PORT

SIZE	PART NUMBER	A	B	C	E BSPT	WT
1/4	1377-04-04	1.25	1.00	.73	1/4	.2
1/2	1377-08-08	1.50	1.25	.86	1/2	.3
3/4	1377-12-12	2.00	1.75	1.23	3/4	.8
1	1377-16-16	2.00	2.00	1.48	1	1.1
1 1/4	1377-20-20	2.00	2.38	1.86	1 1/4	1.3
1 1/2	1377-24-24	2.00	2.62	2.10	1 1/2	1.6
2	1377-32-32	2.00	3.50	2.98	2	3.0

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

BSPB TANK PORT

SIZE	PART NUMBER	A	B	C	E	WT
1/4	1376-04-04	1.25	1.00	.73	1/4 - 19	.2
1/2	1376-08-08	1.50	1.38	.86	1/2 - 14	.3
3/4	1376-12-12	2.00	1.75	1.23	3/4 - 14	.9
1	1376-16-16	2.00	2.00	1.48	1 - 11	1.0
1 1/4	1376-20-20	2.00	2.38	1.86	1 1/4 - 11	1.3
1 1/2	1376-24-24	2.00	2.62	2.10	1 1/2 - 11	1.5
2	1376-32-32	2.00	3.50	2.98	2 - 11	2.6

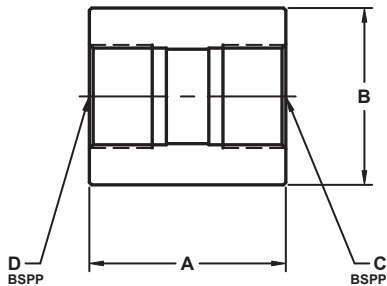
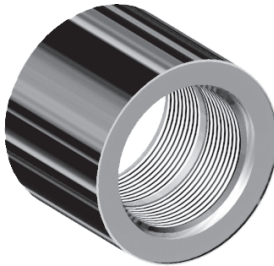
ISO6149 TANK PORT

SIZE	PART NUMBER	A	B	C	E	WT
M12	1614-04-04	1.25	1.00	.73	M12 x 1.5	.2
M18	1614-08-08	1.50	1.25	.86	M18 x 1.5	.3
M27	1614-12-12	1.75	1.75	1.23	M27 x 2	.9
M33	1614-16-16	2.00	2.00	1.48	M33 x 2	1.0
M42	1614-20-20	2.00	2.38	1.86	M42 x 2	1.3
M48	1614-24-24	2.00	2.62	2.10	M48 x 2	1.5
M60	1614-32-32	2.00	3.50	2.98	M60 x 2	2.6

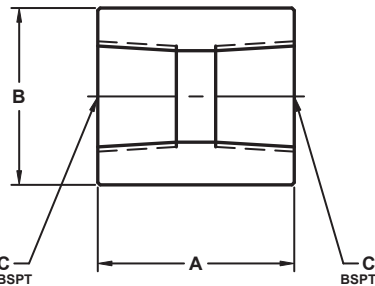
'MAIN' COUPLINGS

BSPP x BSPP							
SIZE (C)	SIZE (D)	PART NUMBER	A	B	C BSPP	D BSPP	WT
-4	-4	1373-04-04	1.25	1.00	1/4-19	1/4-19	.3
-6	-6	1373-06-06	1.38	1.12	3/8-19	3/8-19	.4
-8	-8	1373-08-08	1.50	1.38	1/2-14	1/2-14	.6
-12	-12	1373-12-12	2.00	1.75	3/4-14	3/4-14	1.0
-16	-16	1373-16-16	2.00	2.00	1-11	1-11	1.2
-20	-20	1373-20-20	2.00	2.38	1 1/4-11	1 1/4-11	1.5
-24	-24	1373-24-24	2.25	2.62	1 1/2-11	1 1/2-11	1.8
-32	-32	1373-32-32	2.25	3.50	2-11	2-11	3.0

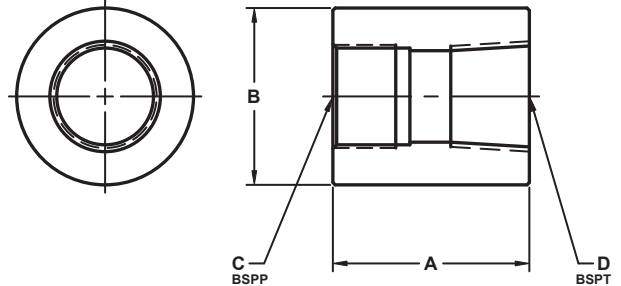
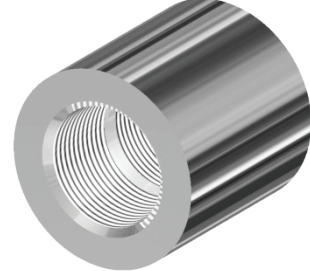
BSPT x BSPT					
SIZE	PART NUMBER	A	B	C BSPT	WT
1/4	1374-04-04	1.50	1.00	1/4	.3
3/8	1374-06-06	1.75	1.25	3/8	.5
1/2	1374-08-08	2.00	1.50	1/2	.4
3/4	1374-12-12	2.25	1.75	3/4	1.1
1	1374-16-16	2.50	2.25	1	2.1
1 1/4	1374-20-20	2.50	2.50	1 1/4	2.2
1 1/2	1374-24-24	2.50	3.00	1 1/2	3.3
2	1374-32-32	3.00	3.62	2	5.4



Model 1373



Model 1374



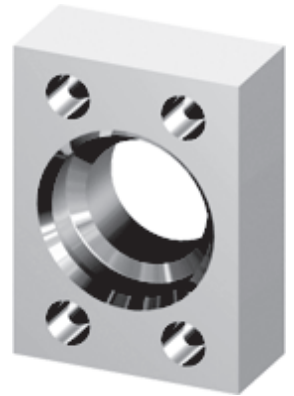
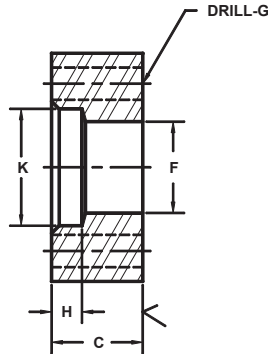
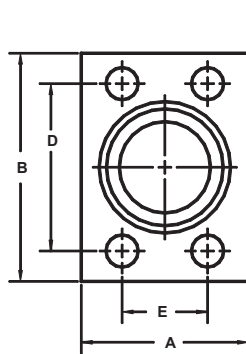
Model 1375

BSPP x BSPT							
SIZE (C)	SIZE (D)	PART NUMBER	A	B	C BSPP	D BSPT	WT
-4	1/4	1375-04-04	1.25	1.00	1/4-19	1/4	.3
-8	1/2	1375-08-08	2.00	1.50	1/2-14	1/2	.9
-12	1/2	1375-12-08	2.25	1.75	3/4-14	1/2	1.3
-12	3/4	1375-12-12	2.25	1.75	3/4-14	3/4	1.2
-12	1	1375-12-16	2.50	2.25	3/4-14	1	2.2
-16	1	1375-16-16	2.50	2.25	1-11	1	2.1
-20	1 1/4	1375-20-20	2.50	2.50	1 1/4-11	1 1/4	2.2
-24	1 1/2	1375-24-24	2.50	3.00	1 1/2-11	1 1/2	3.3
-32	2	1375-32-32	3.00	3.62	2-11	2	5.3

SOCKET WELD IN-LINE PIPE FLANGES

SAE J518 61 SERIES / ISO6162-1 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm	H	K	MOUNTING KIT ^①			WT
												PART NO.	BOLT SIZE	O-RING	
1/2	1/2	1324-08-08M8	1.50	2.12	.75	1.500	.688	.50	8.5	.38	.860	-----	-----	---	.5
3/4	3/4	1324-12-12M10	1.75	2.62	1.00	1.875	.875	.75	10.5	.50	1.070	-----	-----	---	1.0
1	1	1324-16-16M10	2.00	2.82	1.00	2.062	1.031	1.00	10.5	.50	1.335	-----	-----	---	1.2
1 1/4	1 1/4	1324-20-20M10†	2.50	3.19	1.00	2.312	1.188	1.25	10.5	.50	1.680	-----	-----	---	1.5
1 1/2	1 1/2	1324-24-24M12‡	2.75	3.75	1.25	2.750	1.406	1.50	13.0	.50	1.920	-----	-----	---	2.5
2	2	1324-32-32M12‡	3.25	4.00	1.50	3.062	1.688	1.94	13.0	.62	2.411	-----	-----	---	3.6
2 1/2 ^②	2 1/2	1324-40-40M12‡	4.00	4.50	1.75	3.500	2.000	2.44	13.0	.75	2.911	-----	-----	---	5.7
3 ^③	3	1324-48-48M16	4.50	5.31	2.00	4.188	2.438	2.94	17.0	.75	3.540	-----	-----	---	8.3
3 1/2 ^④	3 1/2	1324-56-56M16	5.00	6.00	1.50	4.750	2.750	3.44	17.0	.75	4.045	-----	-----	---	7.5
4 ^④	4	1324-64-64M16	5.50	6.38	1.50	5.125	3.062	3.94	17.0	.75	4.550	-----	-----	---	8.3
5 ^④	5	1324-80-80M16	7.00	7.25	2.00	6.000	3.625	4.94	17.0	.75	5.635	-----	-----	---	16.0



SAE J518 62 SERIES / ISO6162-2 PATTERN

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	Gmm	H	K	MOUNTING KIT ^①			WT
												PART NO.	BOLT SIZE	O-RING	
1/2	1/2	1326-08-08M8	1.75	2.22	1.00	1.594	.718	.50	8.5	.50	.860	-----	-----	---	.8
3/4	3/4	1326-12-12M10	2.00	2.81	1.00	2.000	.937	.75	10.5	.50	1.070	-----	-----	---	1.3
1	1	1326-16-16M12	2.25	3.19	1.00	2.250	1.093	1.00	12.5	.50	1.335	-----	-----	---	1.5
1 1/4	1 1/4	1326-20-20M12‡	2.75	3.75	1.25	2.625	1.250	1.25	13.0	.50	1.680	-----	-----	---	2.7
1 1/2	1 1/2	1326-24-24M16	3.25	4.50	1.50	3.125	1.437	1.50	17.0	.50	1.920	-----	-----	---	4.8
2	2	1326-32-32M20	4.00	5.25	1.75	3.812	1.750	1.94	21.0	.62	2.411	-----	-----	---	7.8
2 1/2 ^⑤	2 1/2	1326-40-40M24	5.00	6.88	2.00	4.875	2.312	2.44	25.5	.62	2.911	-----	-----	---	15.2
3 ^⑤	3	1326-48-48M30	6.00	8.50	2.50	6.000	2.812	2.94	32.0	.62	3.540	-----	-----	---	28.0

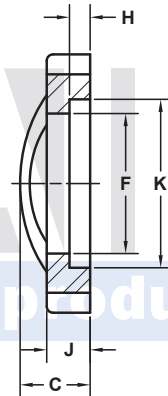
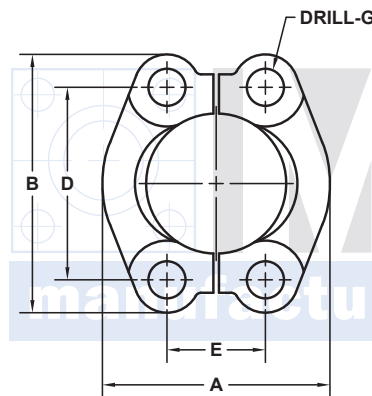
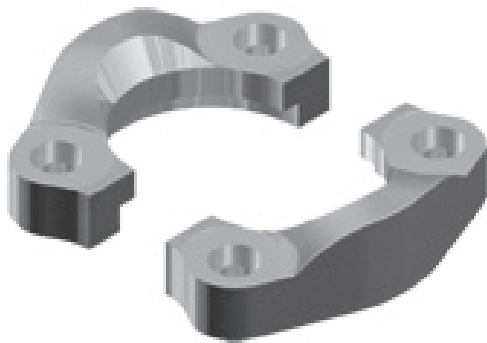
① Not Applicable ② 2500 PSI Max ③ 2000 PSI Max ④ 500 PSI Max ⑤ Not Included in SAE J518 specifications

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED. † Also Available for M12 Bolts ‡ Also Available for M14 Bolts
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SPLIT FLANGES

SAE J518 61 SERIES / ISO 6162-1 PATTERN (J518 61 SERIES METRIC)

FLANGE SIZE		PART NUMBER	A	B	C	D	E	F	G	H	J	K	MOUNTING KIT ①		
													PART NO.	SCREW SIZE	O-RING
1/2	13	1319-08-08 1319-08-08M8	1.81	2.12	.75	1.500	.688	.955	.34 [8.5]	.245	.50	1.219	MK 701 MKM 764	5/16-18 x 1 1/4 M8 x 25	210
3/4	19	1319-12-12 1319-12-12M10	2.05	2.56	.88	1.875	.875	1.265	.41 [11.0]	.245	.56	1.531	MK 1743 MKM 1743	3/8-16 x 1 1/4 M10 x 30	214
1	25	1319-16-16 1319-16-16M10	2.31	2.75	.94	2.062	1.031	1.515	.41 [11.0]	.295	.62	1.781	MK 2735 MKM 2735	3/8-16 x 1 1/4 M10 x 30	219
1 1/4	32	1319-20-20 1319-20-20M10 1319-20-20M12*	2.88	3.12	.88	2.312	1.188	1.720	.47 [11.0] [13.5]	.295	.56	2.031	MK 1727 MKM 2767 MKM 767	7/16-14 x 1 1/2 M10 x 30 M12 x 35	222
1 1/2	38	1319-24-24 1319-24-24M12 1319-24-24M14*	3.25	3.69	1.00	2.750	1.406	2.000	.53 [13.5] [15.0]	.295	.62	2.406	MK 2736 MKM 3735 MKM 2736	1/2-13 x 1 1/2 M12 x 35 M14 x 40	225
2	51	1319-32-32 1319-32-32M12 1319-32-32M14*	3.81	4.00	1.03	3.062	1.688	2.470	.53 [13.5] [15.0]	.355	.62	2.844	MK 2737 MKM 3737 MKM 2737	1/2-13 x 1 1/2 M12 x 35 M14 x 40	228
2 1/2 ②	64	1319-40-40 1319-40-40M12 1319-40-40M14*	4.28	4.50	1.50	3.500	2.000	2.950	.53 [13.5] [15.0]	.355	.75	3.344	MK 1728 MKM 3738 MKM 1728	1/2-13 x 1 3/4 M12 x 40 M14 x 45	232
3 ③	76	1319-48-48 1319-48-48M16	5.16	5.31	1.62	4.188	2.438	3.580	.66 [16.7]	.355	.88	4.031	MK 2738 MKM 1711	5/8-11 x 1 3/4 M16 x 50	237
3 1/2 ④	89	1319-56-56 1319-56-56M16	5.50	6.00	1.12	4.750	2.750	4.030	.66 [16.7]	.422	.88	4.531	MK 1771 MKM 1771	5/8-11 x 2 M16 x 50	241
4 ④	102	1319-64-64 1319-64-64M16	6.00	6.38	1.38	5.125	3.062	4.530	.66 [16.7]	.422	1.00	5.031	MK 1772 MKM 1772	5/8-11 x 2 M16 x 50	245



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO 6162-2 PATTERN (J518 62 SERIES METRIC)

FLANGE SIZE		PART NUMBER	A	B	C	D	E	F	G	H	J	K	MOUNTING KIT ①		
													PART NO.	SCREW SIZE	O-RING
1/2	13	1320-08-08 1320-08-08M8	1.88	2.22	.88	1.594	.718	.970	.34 [8.5]	.285	.62	1.281	MK 701 MKM 701	5/16-18 x 1 1/4 M8 x 30	210
3/4	19	1320-12-12 1320-12-12M10	2.38	2.81	1.12	2.000	.937	1.280	.41 [11.0]	.325	.75	1.656	MK 1725 MKM 1725	3/8-16 x 1 1/2 M10 x 35	214
1	25	1320-16-16 1320-16-16M12	2.75	3.19	1.31	2.250	1.093	1.530	.47 [13.5]	.355	.94	1.906	MK 713 MKM 713	7/16-14 x 1 3/4 M12 x 45	219
1 1/4	32	1320-20-20 1320-20-20M12 1320-20-20M14*	3.06	3.75	1.50	2.625	1.250	1.750	.53 [13.5] [15.0]	.385	1.06	2.156	MK 2740 MKM 704 MKM 2740	1/2-13 x 2 M12 x 45 M14 x 50	222
1 1/2	38	1320-24-24 1320-24-24M16	3.75	4.44	1.69	3.125	1.437	2.030	.66 [16.7]	.475	1.19	2.531	MK 2741 MKM 2741	5/8-11 x 2 1/4 M16 x 55	225
2	51	1320-32-32 1320-32-32M20	4.50	5.25	2.06	3.812	1.750	2.660	.78 [22.0]	.475	1.44	3.156	MK 2743 MKM 2743	3/4-10 x 2 3/4 M20 x 70	228

① Order Separately ② 2500 PSI Max [12.5MPa Max] ③ 2000 PSI Max [10 MPa Max] ④ 500 PSI Max [2.5 MPa Max]

⑥ Includes Both Halves

* Non Standard Screw For This Flange Size

NOTE: ALL Dimensions are in Inches. Metric Equivalents are in [].

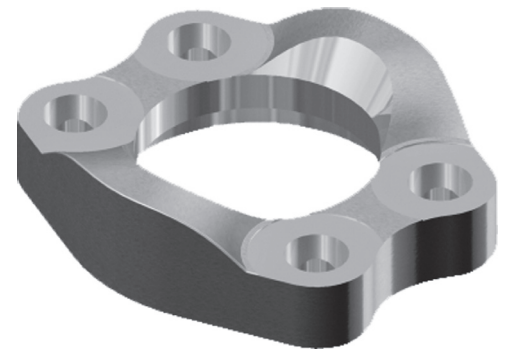
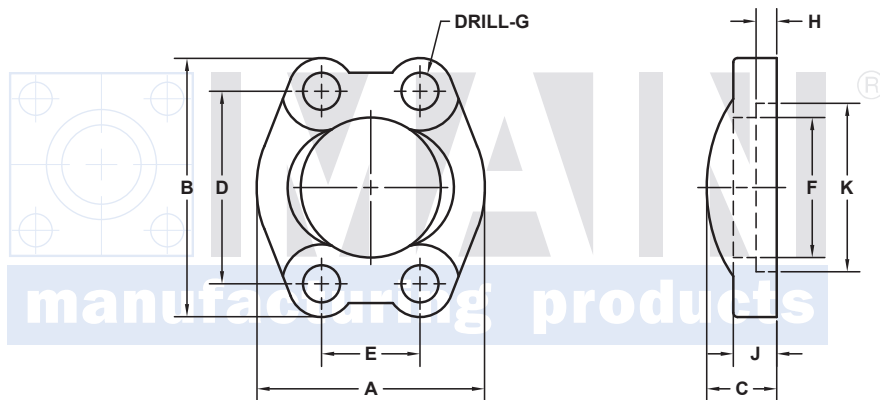
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FLANGE CLAMPS

With Clearance Bolt Holes

SAE J518 61 SERIES / ISO 6162-1 PATTERN (J518 61 SERIES METRIC)

FLANGE SIZE		PART NUMBER	A	B	C	D	E	F	G	H	J	K	MOUNTING KIT ①		
													PART NO.	SCREW SIZE	O-RING
1/2	13	1221-08-08 1221-08-08M8	1.81	2.12	.75	1.500	.688	.955	.34 [8.5]	.245	.50	1.219	MK 701 MKM 764	5/16-18 x 1 1/4 M8 x 25	210
3/4	19	1221-12-12 1221-12-12M10	2.05	2.56	.88	1.875	.875	1.265	.41 [11.0]	.245	.56	1.531	MK 1743 MKM 1743	3/8-16 x 1 1/4 M10 x 30	214
1	25	1221-16-16 1221-16-16M10	2.31	2.75	.94	2.062	1.031	1.515	.41 [11.0]	.295	.62	1.781	MK 2735 MKM 2735	3/8-16 x 1 1/4 M10 x 30	219
1 1/4	32	1221-20-20 1221-20-20M10 1221-20-20M12*	2.88	3.12	.88	2.312	1.188	1.720	.47 [11.0] [13.5]	.295	.56	2.031	MK 1727 MKM 2767 MKM 767	7/16-14 x 1 1/2 M10 x 30 M12 x 35	222
1 1/2	38	1221-24-24 1221-24-24M12 1221-24-24M14*	3.25	3.69	1.00	2.750	1.406	2.000	.53 [13.5] [15.0]	.295	.62	2.406	MK 2736 MKM 3735 MKM 2736	1/2-13 x 1 1/2 M12 x 35 M14 x 40	225
2	51	1221-32-32 1221-32-32M12 1221-32-32M14*	3.81	4.00	1.03	3.062	1.688	2.470	.53 [13.5] [15.0]	.355	.62	2.844	MK 2737 MKM 3737 MKM 2737	1/2-13 x 1 1/2 M12 x 35 M14 x 40	228
2 1/2 ②	64	1221-40-40 1221-40-40M12 1221-40-40M14*	4.28	4.50	1.50	3.500	2.000	2.950	.53 [13.5] [15.0]	.355	.75	3.344	MK 1728 MKM 3738 MKM 1728	1/2-13 x 1 3/4 M12 x 40 M14 x 45	232
3 ③	76	1221-48-48 1221-48-48M16	5.16	5.31	1.62	4.188	2.438	3.580	.66 [16.7]	.355	.88	4.031	MK 2738 MKM 1711	5/8-11 x 1 3/4 M16 x 50	237
3 1/2 ④	89	1221-56-56 1221-56-56M16	5.50	6.00	1.12	4.750	2.750	4.030	.66 [16.7]	.422	.88	4.531	MK 1771 MKM 1771	5/8-11 x 2 M16 x 50	241
4 ④	102	1221-64-64 1221-64-64M16	6.00	6.38	1.38	5.125	3.062	4.530	.66 [16.7]	.422	1.00	5.031	MK 1772 MKM 1772	5/8-11 x 2 M16 x 50	245



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

SAE J518 62 SERIES / ISO 6162-2 PATTERN (J518 62 SERIES METRIC)

FLANGE SIZE		PART NUMBER	A	B	C	D	E	F	G	H	J	K	MOUNTING KIT ①		
													PART NO.	SCREW SIZE	O-RING
1/2	13	1223-08-08 1223-08-08M8	1.88	2.22	.88	1.594	.718	.970	.34 [8.5]	.285	.62	1.281	MK 701 MKM 701	5/16-18 x 1 1/4 M8 x 30	210
3/4	19	1223-12-12 1223-12-12M10	2.38	2.81	1.12	2.000	.937	1.280	.41 [11.0]	.325	.75	1.656	MK 1725 MKM 1725	3/8-16 x 1 1/2 M10 x 35	214
1	25	1223-16-16 1223-16-16M12	2.75	3.19	1.31	2.250	1.093	1.530	.47 [13.5]	.355	.94	1.906	MK 713 MKM 713	7/16-14 x 1 3/4 M12 x 45	219
1 1/4	32	1223-20-20 1223-20-20M12 1223-20-20M14*	3.06	3.75	1.50	2.625	1.250	1.750	.53 [13.5] [15.0]	.385	1.06	2.156	MK 2740 MKM 704 MKM 2740	1/2-13 x 2 M12 x 45 M14 x 50	222
1 1/2	38	1223-24-24 1223-24-24M16	3.75	4.44	1.69	3.125	1.437	2.030	.66 [16.7]	.475	1.19	2.531	MK 2741 MKM 2741	5/8-11 x 2 1/4 M16 x 55	225
2	51	1223-32-32 1223-32-32M20	4.50	5.25	2.06	3.812	1.750	2.660	.78 [22.0]	.475	1.44	3.156	MK 2743 MKM 2743	3/4-10 x 2 3/4 M20 x 70	228

① Order Separately ② 2500 PSI Max [12.5MPa Max] ③ 2000 PSI Max [10 MPa Max] ④ 500 PSI Max [2.5 MPa Max]

* Non Standard Screw For This Flange Size

NOTE: ALL Dimensions are in Inches. Metric Equivalents are in [].

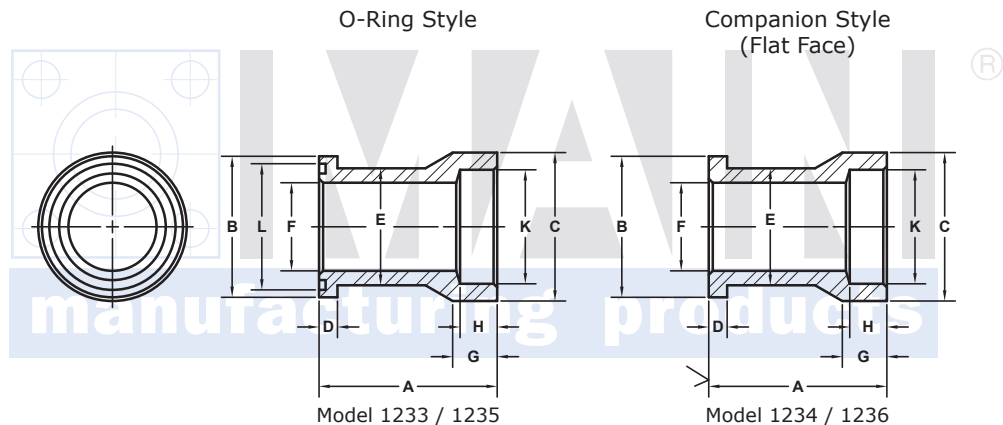
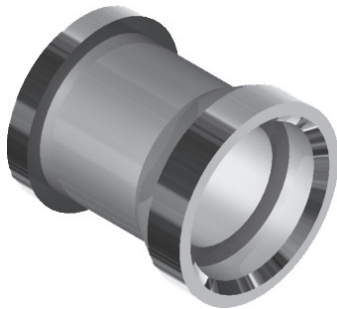
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SOCKET WELD PIPE FLANGED HEADS

61 SERIES

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	G	H	K	L	O-RING NO. ^①	WT
1/2	1/2	1233-08-08	2.12	1.188	1.31	.265	.92	.50	.50	.50	.860	1.000	210	
		1234-08-08										---	---	
3/4	3/4	1233-12-12	2.25	1.500	1.62	.265	1.23	.75	.50	.50	1.070	1.250	214	
		1234-12-12										---	---	
1	1	1233-16-16	2.25	1.750	1.88	.315	1.48	1.00	.50	.50	1.335	1.562	219	
		1234-16-16										---	---	
1 1/4	1 1/4	1233-20-20	2.62	2.000	2.12	.315	1.69	1.25	.50	.50	1.680	1.750	222	
		1234-20-20										---	---	
1 1/2	1 1/2	1233-24-24	2.75	2.375	2.50	.315	1.97	1.50	.50	.50	1.920	2.125	225	
		1234-24-24										---	---	
1 1/2	2	1233-24-32	4.00	2.375	3.00	.315	1.97	1.50	1.00	.62	2.411	2.125	225	
		1234-24-32										---	---	
2	2	1233-32-32	3.00	2.812	3.00	.375	2.44	1.94	.75	.62	2.411	2.500	228	
		1234-32-32										---	---	
2 1/2 ^②	2 1/2	1233-40-40	3.25	3.312	3.62	.375	2.89	2.32	.75	.62	2.911	3.000	232	
		1234-40-40										---	---	
3 ^③	3	1233-48-48	3.75	4.000	4.50	.375	3.53	2.90	.88	.75	3.540	3.625	237	
		1234-48-48										---	---	
4 ^④	4	1233-64-64	4.25	5.000	5.50	.442	4.48	3.88	.88	.75	4.550	4.609	245	
		1234-64-64										---	---	

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

62 SERIES

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	G	H	K	L	O-RING NO. ^①	WT
1/2	1/2	1235-08-08	2.38	1.250	1.31	.305	.92	.50	.62	.50	.860	1.000	210	
		1236-08-08										---	---	
3/4	3/4	1235-12-12	2.75	1.625	1.62	.345	1.23	.69	.62	.50	1.070	1.250	214	
		1236-12-12										---	---	
1	1	1235-16-16	3.00	1.875	2.00	.375	1.48	.88	.62	.50	1.335	1.562	219	
		1236-16-16										---	---	
1 1/4	1 1/4	1235-20-20	3.38	2.125	2.38	.405	1.69	1.19	.62	.50	1.680	1.750	222	
		1236-20-20										---	---	
1 1/4	1 1/2	1235-20-24	3.75	2.125	2.75	.405	1.69	1.19	.62	.50	1.920	1.750	222	
		1236-20-24										---	---	
1 1/2	1 1/2	1235-24-24	3.75	2.500	2.75	.495	1.97	1.38	.62	.50	1.920	2.125	225	
		1236-24-24										---	---	
1 1/2	2	1235-24-32	4.88	2.500	3.25	.495	1.97	1.38	1.00	.75	2.411	2.125	225	
		1236-24-32										---	---	
2	2	1235-32-32	4.00	3.125	3.50	.495	2.60	1.75	.75	.62	2.411	2.500	228	
		1236-32-32										---	---	

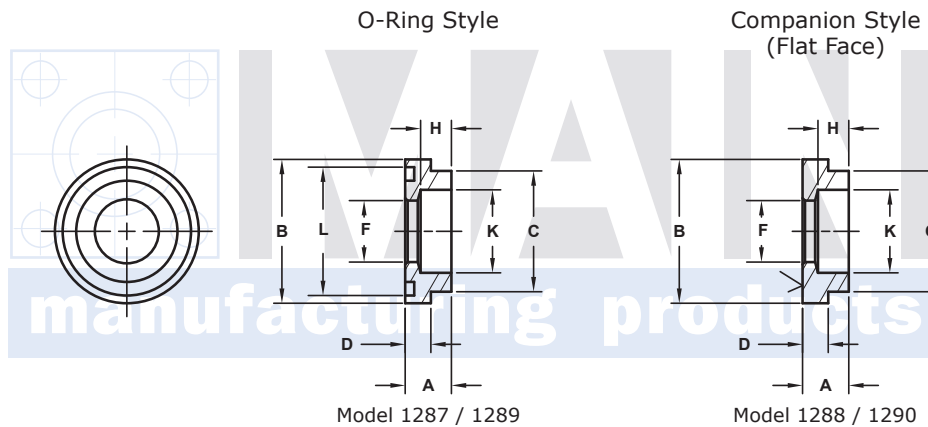
① Order Separately ② 2500 PSI Max ③ 2000 PSI Max ④ 500 PSI Max

SOCKET WELD TUBE FLANGED HEADS

61 SERIES

FLANGE SIZE	TUBE SIZE	PART NUMBER	A	B	C	D	F	H	K	L	O-RING NO. ①	WT
1/2	1/2	1287-08-08	.50	1.188	.92	.265	.41	.31	.510	1.000	210	.2
		1288-08-08								---	---	
3/4	3/4	1287-12-12	.56	1.500	1.23	.265	.63	.38	.760	1.250	214	.2
		1288-12-12								---	---	
1	1	1287-16-16	.56	1.750	1.48	.315	.75	.38	1.010	1.562	219	.2
		1288-16-16								---	---	
1 1/4	1	1287-20-16	.56	2.000	1.69	.315	.88	.38	1.010	1.750	222	.4
		1288-20-16								---	---	
1 1/4	1 1/4	1287-20-20	.56	2.000	1.69	.315	1.12	.38	1.260	1.750	222	.3
		1288-20-20								---	---	
1 1/2	1 1/2	1287-24-24	.62	2.375	1.97	.315	1.38	.44	1.510	2.125	225	.3
		1288-24-24								---	---	
2	2	1287-32-32	.62	2.812	2.44	.375	1.88	.44	2.010	2.500	228	.4
		1288-32-32								---	---	
2 1/2 ②	2	1287-40-32	.75	3.312	2.89	.375	1.88	.44	2.010	3.000	232	.8
		1288-40-32								---	---	
2 1/2 ②	2 1/2	1287-40-40	.75	3.312	2.89	.375	2.38	.50	2.510	3.000	232	.6
		1288-40-40								---	---	
3 ③	3	1287-48-48	.94	4.000	3.53	.375	2.88	.62	3.010	3.625	237	1.0
		1288-48-48								---	---	

MATERIAL:
Low Carbon Steel



Model 1287 / 1289

Model 1288 / 1290



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

62 SERIES

FLANGE SIZE	TUBE SIZE	PART NUMBER	A	B	C	D	F	H	K	L	O-RING NO. ①	WT
1/2	1/2	1289-08-08	.75	1.250	.92	.305	.41	.50	.510	1.000	210	.2
		1290-08-08								---	---	
3/4	3/4	1289-12-12	.75	1.625	1.23	.345	.63	.50	.760	1.250	214	.2
		1290-12-12								---	---	
1	1	1289-16-16	.94	1.875	1.48	.375	.75	.50	1.010	1.562	219	.4
		1290-16-16								---	---	
1 1/4	1	1289-20-16	1.00	2.125	1.69	.405	.75	.50	1.010	1.750	222	.6
		1290-20-16								---	---	
1 1/4	1 1/4	1289-20-20	1.00	2.125	1.69	.405	1.00	.62	1.260	1.750	222	.5
		1290-20-20								---	---	
1 1/2	1 1/2	1289-24-24	1.25	2.500	1.97	.495	1.25	.75	1.510	2.125	225	.8
		1290-24-24								---	---	
2	1 1/2	1289-32-24	1.50	3.125	2.60	.495	1.38	.75	1.510	2.500	228	1.6
		1290-32-24								---	---	
2	2	1289-32-32	1.50	3.125	2.60	.495	1.75	.75	2.010	2.500	228	1.4
		1290-32-32								---	---	

① Order Separately

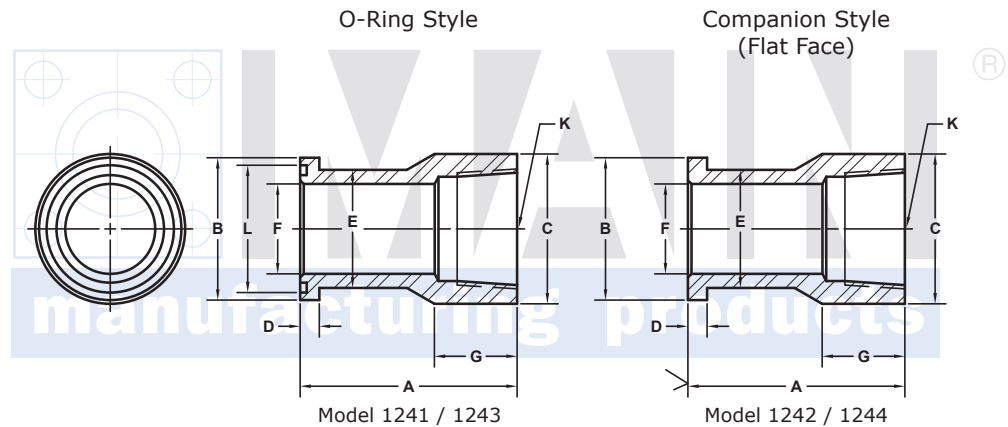
② 2500 PSI Max

③ 2000 PSI Max

NPTF THREADED FLANGED HEADS

61 SERIES														
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	G		K	L	O-RING NO. ^①	WT
1/2	1/2	1241-08-08	2.62	1.188	1.31	.265	.92	.50	1.00		1/2	1.000	210	
		1242-08-08										---	---	
3/4	3/4	1241-12-12	2.75	1.500	1.62	.265	1.23	.75	1.00		3/4	1.250	214	
		1242-12-12										---	---	
1	1	1241-16-16	3.00	1.750	1.88	.315	1.48	1.00	1.25		1	1.562	219	
		1242-16-16										---	---	
1	1 1/4	1241-16-20	3.50	1.750	2.12	.315	1.48	1.00	1.38		1 1/4	1.562	219	
		1242-16-20										---	---	
1 1/4	1 1/4	1241-20-20	3.50	2.000	2.12	.315	1.69	1.25	1.38		1 1/4	1.750	222	
		1242-20-20										---	---	
1 1/4	1 1/2	1241-20-24	3.25	2.000	2.50	.315	1.69	1.25	1.31		1 1/2	1.750	222	
		1242-20-24										---	---	
1 1/2	1 1/2	1241-24-24	3.62	2.375	2.50	.315	1.97	1.50	1.38		1 1/2	2.125	225	
		1242-24-24										---	---	
1 1/2	2	1241-24-32	4.00	2.375	3.00	.315	1.97	1.50	1.38		2	2.125	225	
		1242-24-32										---	---	
2	2	1241-32-32	3.62	2.812	3.00	.375	2.44	1.94	1.38		2	2.500	228	
		1242-32-32										---	---	
2 1/2 ^②	2 1/2	1241-40-40	4.38	3.312	3.62	.375	2.89	2.44	1.75		2 1/2	3.000	232	
		1242-40-40										---	---	

MATERIAL:
Low Carbon Steel ^⑤



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62 SERIES														
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	G		K	L	O-RING NO. ^①	WT
1/2	1/2	1243-08-08	2.75	1.250	1.31	.305	.92	.50	1.06		1/2	1.000	210	
		1244-08-08										---	---	
3/4	3/4	1243-12-12	3.12	1.625	1.62	.345	1.23	.69	1.06		3/4	1.250	214	
		1244-12-12										---	---	
1	1	1243-16-16	3.62	1.875	2.00	.375	1.48	.88	1.25		1	1.562	219	
		1244-16-16										---	---	
1 1/4	1 1/4	1243-20-20	4.00	2.125	2.38	.405	1.69	1.19	1.31		1 1/4	1.750	222	
		1244-20-20										---	---	
1 1/4	1 1/2	1243-20-24	4.50	2.125	2.75	.405	1.69	1.19	1.38		1 1/2	1.750	222	
		1244-20-24										---	---	
1 1/2	1 1/2	1243-24-24	4.50	2.500	2.75	.495	1.97	1.38	1.38		1 1/2	2.125	225	
		1244-24-24										---	---	
1 1/2	2	1243-24-32	5.75	2.500	3.50	.495	1.97	1.38	1.38		2	2.125	225	
		1244-24-32										---	---	
2	2	1243-32-32	4.62	3.125	3.50	.495	2.60	1.75	1.38		2	2.500	228	
		1244-32-32										---	---	

① Order Separately

② 2500 PSI Max

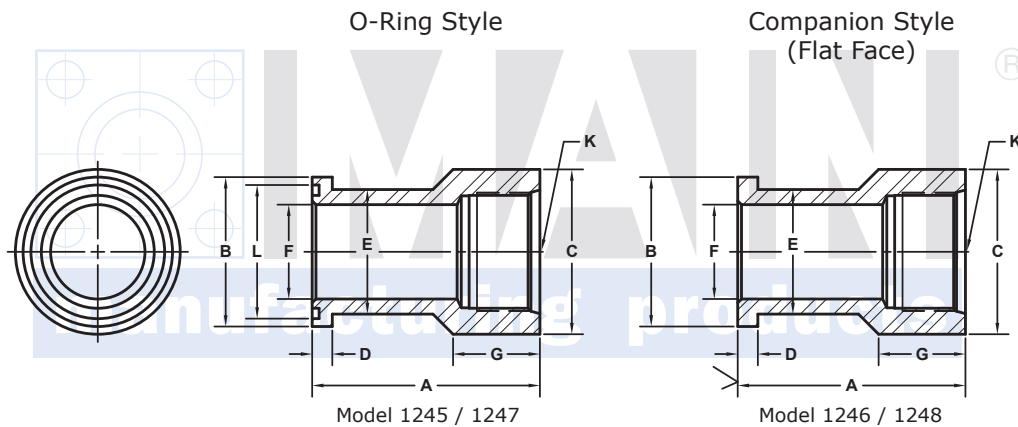
⑤ May Contain Lead

SAE J1926 THREADED FLANGED HEADS

61 SERIES

FLANGE SIZE	ORB	PART NUMBER	A	B	C	D	E	F	G	K	L	O-RING NO. ^①	WT
1/2	-8	1245-08-08	2.62	1.188	1.31	.265	.92	.50	1.00	3/4-16	1.000	210	
		1246-08-08									---	---	
3/4	-12	1245-12-12	3.00	1.500	1.75	.265	1.23	.75	1.12	1 1/16-12	1.250	214	
		1246-12-12									---	---	
1	-16	1245-16-16	3.00	1.750	2.00	.315	1.48	1.00	1.12	1 5/16-12	1.562	219	
		1246-16-16									---	---	
1	-20	1245-16-20	3.50	1.750	2.38	.315	1.48	1.00	1.19	1 5/8-12	1.562	219	
		1246-16-20									---	---	
1 1/4	-20	1245-20-20	3.50	2.000	2.38	.315	1.69	1.25	1.19	1 5/8-12	1.750	222	
		1246-20-20									---	---	
1 1/4	-24	1245-20-24	3.62	2.000	2.62	.315	1.69	1.25	1.38	1 7/8-12	1.750	222	
		1246-20-24									---	---	
1 1/2	-24	1245-24-24	3.62	2.375	2.62	.315	1.97	1.50	1.38	1 7/8-12	2.125	225	
		1246-24-24									---	---	
1 1/2	-32	1245-24-32	4.00	2.375	3.50	.315	1.97	1.50	1.12	2 1/2-12	2.125	225	
		1246-24-32									---	---	
2	-32	1245-32-32	4.00	2.812	3.50	.375	2.44	1.94	1.12	2 1/2-12	2.500	228	
		1246-32-32									---	---	
2 1/2 ^②	-32	1245-40-32	4.00	3.312	3.50	.375	2.89	1.94	1.44	2 1/2-12	3.000	232	
		1246-40-32									---	---	

MATERIAL:
Low Carbon Steel ^⑤



Model 1245 / 1247

Model 1246 / 1248

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

62 SERIES

FLANGE SIZE	ORB	PART NUMBER	A	B	C	D	E	F	G	K	L	O-RING NO. ^①	WT
1/2	-8	1247-08-08	2.75	1.250	1.31	.305	.92	.50	1.06	3/4-16	1.000	210	
		1248-08-08									---	---	
3/4	-12	1247-12-12	3.25	1.625	1.75	.345	1.23	.69	1.31	1 1/16-12	1.250	214	
		1248-12-12									---	---	
1	-16	1247-16-16	3.62	1.875	2.00	.375	1.48	.88	1.25	1 5/16-12	1.562	219	
		1248-16-16									---	---	
1	-20	1247-16-20	4.00	1.875	2.38	.375	1.48	.88	1.31	1 5/8-12	1.562	219	
		1248-16-20									---	---	
1 1/4	-20	1247-20-20	4.00	2.125	2.38	.405	1.69	1.19	1.31	1 5/8-12	1.750	222	
		1248-20-20									---	---	
1 1/2	-24	1247-24-24	4.50	2.500	2.75	.495	1.97	1.38	1.38	1 7/8-12	2.125	225	
		1248-24-24									---	---	
1 1/2	-32	1247-24-32	5.00	2.500	3.50	.495	1.97	1.38	1.38	2 1/2-12	2.125	225	
		1248-24-32									---	---	
2	-32	1247-32-32	4.62	3.125	3.50	.495	2.60	1.75	1.38	2 1/2-12	2.500	228	
		1248-32-32									---	---	

① Order Separately

② 2500 PSI Max

⑤ May Contain Lead

NOTE: The Pressure Rating of the Assembly Should NOT Exceed the Lower of the Flange Pad or the Fitting. Check the Fitting Manufacturer for Details.

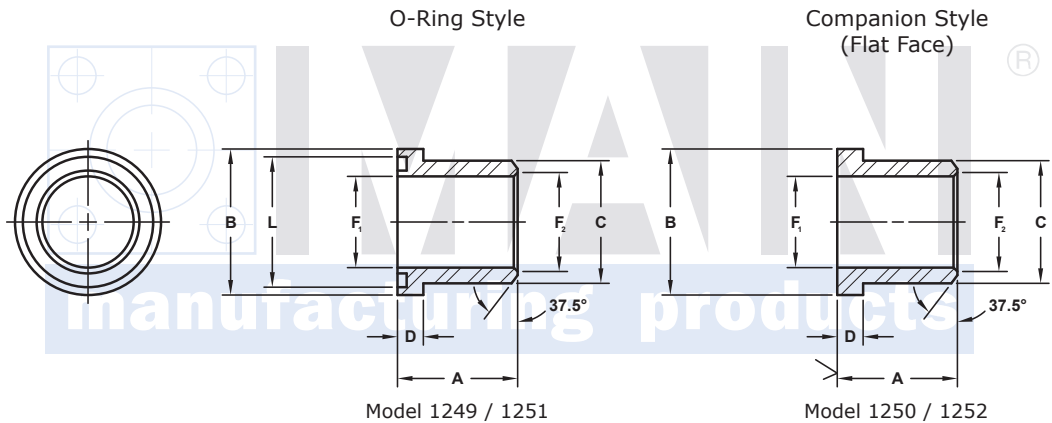
BUTT WELD FLANGED HEADS

For Schedule 40 Pipe ®

61 SERIES

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	F ₁	F ₂	L	O-RING NO. ①	WT
1/2	1/2	1249-08-08	1.25	1.188	.92	.265	.53	.62	1.000	210	.2
		1250-08-08							---	---	
3/4	3/4	1249-12-12	1.44	1.500	1.23	.265	.75	.82	1.250	214	.3
		1250-12-12							---	---	
1	1	1249-16-16	1.44	1.750	1.48	.315	.94	1.05	1.562	219	.4
		1250-16-16							---	---	
1 1/4	1 1/4	1249-20-20	1.44	2.000	1.69	.315	1.25	1.38	1.750	222	.5
		1250-20-20							---	---	
1 1/2	1 1/2	1249-24-24	1.50	2.375	1.97	.315	1.50	1.61	2.125	225	.6
		1250-24-24							---	---	
2	2	1249-32-32	1.50	2.812	2.44	.375	1.94	2.06	2.500	228	.8
		1250-32-32							---	---	
2 1/2	2 1/2	1249-40-40	2.00	3.312	2.89	.375	2.47	2.47	3.000	232	1.2
		1250-40-40							---	---	
3	3	1249-48-48	2.12	4.000	3.53	.375	2.90	3.06	3.625	237	2.1
		1250-48-48							---	---	
3 1/2	3 1/2	1249-56-56	1.62	4.500	3.98	.442	3.36	3.54	4.109	241	2.0
		1250-56-56							---	---	
4	4	1249-64-64	1.88	5.000	4.48	.442	3.83	4.02	4.609	245	2.6
		1250-64-64							---	---	

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

62 SERIES

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	F ₁	F ₂	L	O-RING NO. ①	WT
1/2	1/2	1251-08-08	1.38	1.250	.92	.305	.53	.62	1.000	210	.2
		1252-08-08							---	---	
3/4	3/4	1251-12-12	1.62	1.625	1.23	.345	.75	.82	1.250	214	.4
		1252-12-12							---	---	
1	1	1251-16-16	1.88	1.875	1.48	.375	.94	1.05	1.562	219	.6
		1252-16-16							---	---	
1 1/4	1 1/4	1251-20-20	2.00	2.125	1.69	.405	1.25	1.38	1.750	222	.7
		1252-20-20							---	---	
1 1/2	1 1/2	1251-24-24	2.25	2.500	1.97	.495	1.50	1.61	2.125	225	1.1
		1252-24-24							---	---	
2	2	1251-32-32	2.56	3.125	2.60	.495	1.94	2.06	2.500	228	1.9
		1252-32-32							---	---	

① Order Separately

⑥ Other Pipe and Tube Sizes are Available

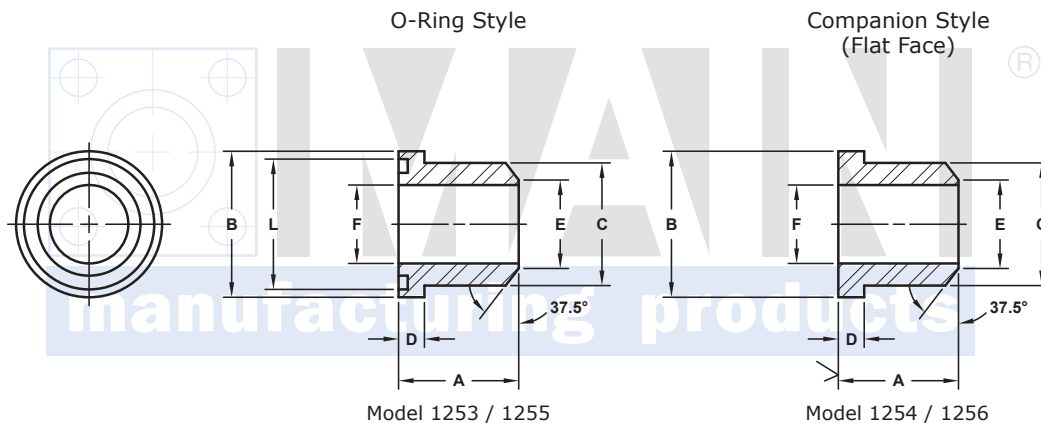
BUTT WELD FLANGED HEADS

For Schedule 80 Pipe ®

61 SERIES

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	L	O-RING NO. ①	WT
1/2	1/2	1253-08-08	1.25	1.188	.92	.265	.65	.53	1.000	210	.2
		1254-08-08							---	---	
3/4	3/4	1253-12-12	1.44	1.500	1.23	.265	.88	.75	1.250	214	.3
		1254-12-12							---	---	
1	1	1253-16-16	1.44	1.750	1.48	.315	1.06	1.00	1.562	219	.4
		1254-16-16							---	---	
1 1/4	1 1/4	1253-20-20	1.44	2.000	1.69	.315	1.38	1.25	1.750	222	.5
		1254-20-20							---	---	
1 1/2	1 1/2	1253-24-24	1.50	2.375	1.97	.315	1.62	1.50	2.125	225	.6
		1254-24-24							---	---	
2	2	1253-32-32	1.50	2.812	2.44	.375	2.06	1.94	2.500	228	.8
		1254-32-32							---	---	
2 1/2	2 1/2	1253-40-40	2.00	3.312	2.89	.375	2.44	2.32	3.000	232	1.4
		1254-40-40							---	---	
3	3	1253-48-48	2.12	4.000	3.53	.375	3.02	2.90	3.625	237	2.1
		1254-48-48							---	---	
3 1/2	3 1/2	1253-56-56	1.62	4.500	3.98	.442	3.48	3.36	4.109	241	1.9
		1254-56-56							---	---	
4	4	1253-64-64	1.88	5.000	4.48	.442	3.95	3.83	4.609	245	2.6
		1254-64-64							---	---	

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

62 SERIES

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	L	O-RING NO. ①	WT
1/2	1/2	1255-08-08	1.38	1.250	.92	.305	.65	.53	1.000	210	.2
		1256-08-08							---	---	
3/4	3/4	1255-12-12	1.62	1.625	1.23	.345	.88	.75	1.250	214	.4
		1256-12-12							---	---	
1	1	1255-16-16	1.88	1.875	1.48	.375	1.06	.94	1.562	219	.6
		1256-16-16							---	---	
1 1/4	1 1/4	1255-20-20	2.00	2.125	1.69	.405	1.38	1.25	1.750	222	.7
		1256-20-20							---	---	
1 1/2	1 1/2	1255-24-24	2.25	2.500	1.97	.495	1.62	1.50	2.125	225	1.1
		1256-24-24							---	---	
2	2	1255-32-32	2.56	3.125	2.60	.495	2.06	1.94	2.500	228	1.9
		1256-32-32							---	---	

① Order Separately

⑥ Other Pipe and Tube Sizes are Available

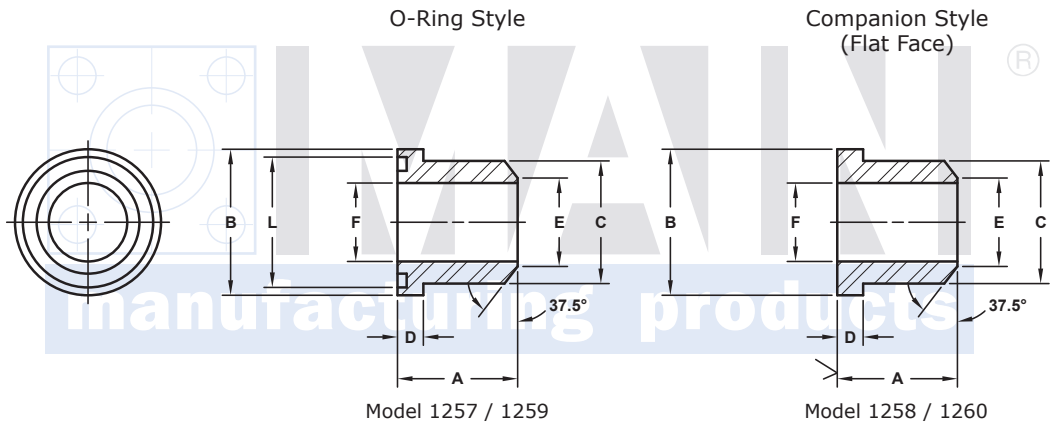
BUTT WELD FLANGED HEADS

For Schedule 160 Pipe ⑥

61 SERIES

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	L	O-RING NO. ①	WT
1/2	1/2	1257-08-08	1.25	1.188	.92	.265	.59	.47	1.000	210	.2
		1258-08-08							---	---	
3/4	3/4	1257-12-12	1.44	1.500	1.23	.265	.73	.61	1.250	214	.4
		1258-12-12							---	---	
1	1	1257-16-16	1.44	1.750	1.48	.315	.93	.81	1.562	219	.5
		1258-16-16							---	---	
1 1/4	1 1/4	1257-20-20	1.44	2.000	1.69	.315	1.28	1.16	1.750	222	.6
		1258-20-20							---	---	
1 1/2	1 1/2	1257-24-24	1.50	2.375	1.97	.315	1.46	1.34	2.125	225	.7
		1258-24-24							---	---	
2	2	1257-32-32	1.50	2.812	2.44	.375	1.81	1.69	2.500	228	1.1
		1258-32-32							---	---	
2 1/2	2 1/2	1257-40-40	2.00	3.312	2.89	.375	2.24	2.12	3.000	232	1.8
		1258-40-40							---	---	
3	3	1257-48-48	2.12	4.000	3.53	.375	2.75	2.62	3.625	237	2.7
		1258-48-48							---	---	
3 1/2	3 1/2	1257-56-56	1.62	4.500	3.98	.442	3.12	3.00	4.109	241	2.6
		1258-56-56							---	---	
4	4	1257-64-64	1.88	5.000	4.48	.442	3.56	3.44	4.609	245	3.6
		1258-64-64							---	---	

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

62 SERIES

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	L	O-RING NO. ①	WT
1/2	1/2	1259-08-08	1.38	1.250	.92	.305	.59	.47	1.000	210	.2
		1260-08-08							---	---	
3/4	3/4	1259-12-12	1.62	1.625	1.23	.345	.73	.61	1.250	214	.5
		1260-12-12							---	---	
1	1	1259-16-16	1.88	1.875	1.48	.375	.93	.81	1.562	219	.7
		1260-16-16							---	---	
1 1/4	1 1/4	1259-20-20	2.00	2.125	1.69	.405	1.28	1.16	1.750	222	.8
		1260-20-20							---	---	
1 1/2	1 1/2	1259-24-24	2.25	2.500	1.97	.495	1.46	1.34	2.125	225	1.2
		1260-24-24							---	---	
2	2	1259-32-32	2.56	3.125	2.60	.495	1.81	1.69	2.500	228	2.4
		1260-32-32							---	---	

① Order Separately

⑥ Other Pipe and Tube Sizes are Available

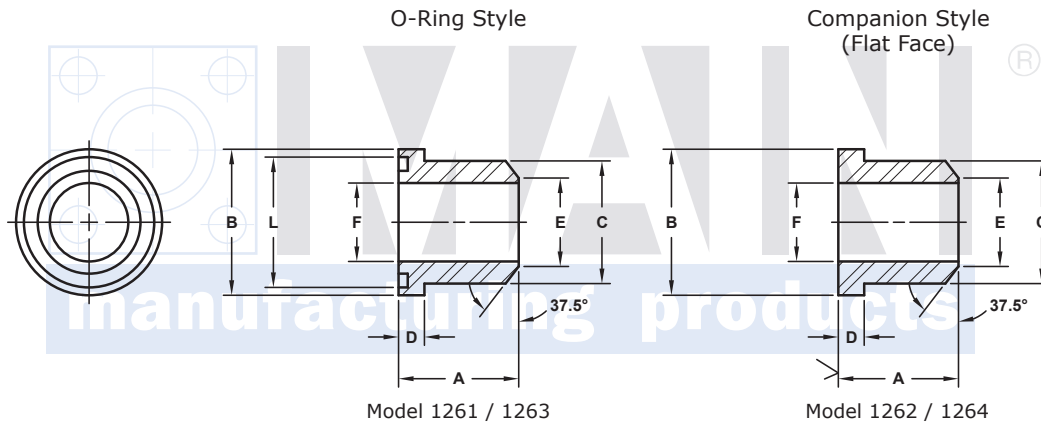
BUTT WELD FLANGED HEADS

For Schedule XXS Pipe ⑥

61 SERIES

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	L	O-RING NO. ①	WT
1/2	1/2	1261-08-08	1.25	1.188	.92	.265	.38	.25	1.000	210	.2
		1262-08-08							---	---	
3/4	3/4	1261-12-12	1.44	1.500	1.23	.265	.56	.44	1.250	214	.4
		1262-12-12							---	---	
1	1	1261-16-16	1.44	1.750	1.48	.315	.71	.59	1.562	219	.6
		1262-16-16							---	---	
1 1/4	1 1/4	1261-20-20	1.44	2.000	1.69	.315	1.01	.89	1.750	222	.7
		1262-20-20							---	---	
1 1/2	1 1/2	1261-24-24	1.50	2.375	1.97	.315	1.22	1.10	2.125	225	.9
		1262-24-24							---	---	
2	2	1261-32-32	1.50	2.812	2.44	.375	1.62	1.50	2.500	228	1.2
		1262-32-32							---	---	
2 1/2	2 1/2	1261-40-40	2.00	3.312	2.89	.375	1.89	1.77	3.000	232	2.3
		1262-40-40							---	---	
3	3	1261-48-48	2.12	4.000	3.53	.375	2.42	2.30	3.625	237	3.3
		1262-48-48							---	---	
3 1/2	3 1/2	1261-56-56	1.62	4.500	3.98	.442	2.84	2.72	4.109	241	3.0
		1262-56-56							---	---	
4	4	1261-64-64	1.88	5.000	4.48	.442	3.25	3.12	4.609	245	4.2
		1262-64-64							---	---	

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

62 SERIES

FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	D	E	F	L	O-RING NO. ①	WT
1/2	1/2	1263-08-08	1.38	1.250	.92	.305	.38	.25	1.000	210	.3
		1264-08-08							---	---	
3/4	3/4	1263-12-12	1.62	1.625	1.23	.345	.56	.44	1.250	214	.5
		1264-12-12							---	---	
1	1	1263-16-16	1.88	1.875	1.48	.375	.71	.59	1.562	219	.8
		1264-16-16							---	---	
1 1/4	1 1/4	1263-20-20	2.00	2.125	1.69	.405	1.01	.89	1.750	222	1.0
		1264-20-20							---	---	
1 1/2	1 1/2	1263-24-24	2.25	2.500	1.97	.495	1.22	1.10	2.125	225	1.5
		1264-24-24							---	---	
2	2	1263-32-32	2.56	3.125	2.60	.495	1.62	1.50	2.500	228	2.7
		1264-32-32							---	---	

① Order Separately

⑥ Other Pipe and Tube Sizes are Available

SQUARE IN-LINE FLANGES

NOTES CONCERNING SQUARE FLANGES

***Please be sure your bolt pattern matches.**

(+/- .010"). There are dozens of similar square bolt patterns besides the pages shown here.

***Other connections are stocked or available.**

Socket Weld Tube, Butt Welds, SAE O-Ring Boss, ISO 6149, BSPP, BSPT, and more are ready to ship.

***Other geometries are stocked or available.**

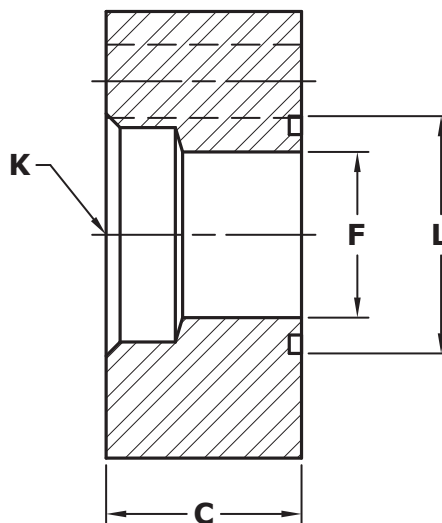
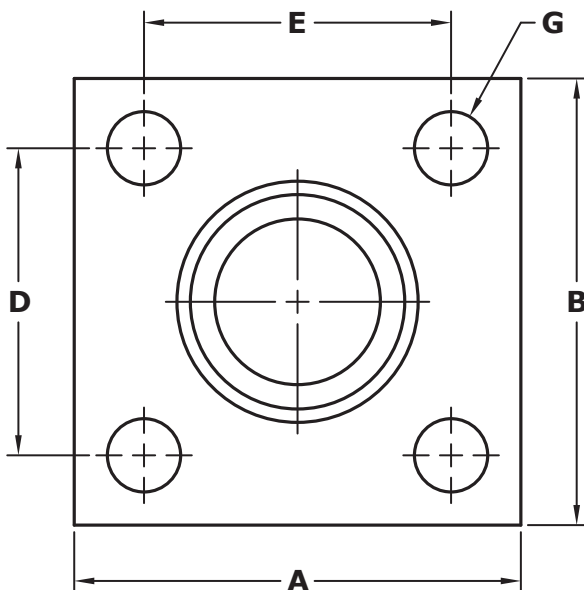
In-Line, Elbows, Tees, Crosses, etc.

***Please fill out the generic drawing below & fax to:**

MAIN at **810-953-1385** or call **800-521-7918**

if the pattern/style you need is not shown.

***MAIN's web site, MAINmfg.com**
offers more choices as well.



Dimensions

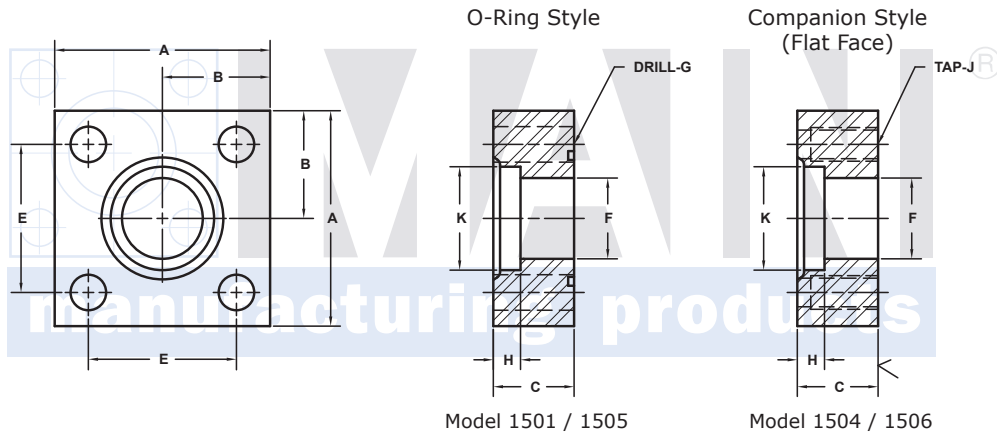
A-	_____
B-	_____
C-	_____
D-	_____
E-	_____
F-	_____
G-	_____
K-	_____
L-	_____

For your convenience, copy the above drawing and fill in the dimensions. Please indicate whether the bolt holes are clearance holes (CBH) or are tapped (TBH). If the flange is flat-faced use the word "none" for the O-ring groove diameter (Dim 'L'). For 'K' note size (1 1/2") and type (SWP, SWT, NPTF, ORB, BW (schedule), etc.) of connection. When you are finished, **fax the drawing to 810-953-1385** and **MAIN** will get back to you with a part number and price.

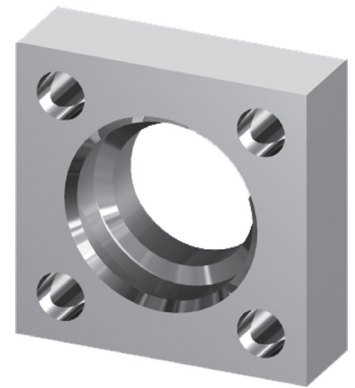
SOCKET WELD PIPE IN-LINE FLANGES

For JIS O-Ring and JIS Pipe ®

JIS B 2291 BOLT PATTERN (210K)										TYPE SHA & SHB (TAPPED)					
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Emm	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT
									Part No.			Screw Size	O-Ring		
15	15	1501-08-08M	2.50	1.25	.87	40.0	1.574	.63	11.0	.43	.874	MKM 4771	M10 x 40	G25	1.3
		1504-08-08M							M10x1.5			-----	-----	---	
20	20	1501-12-12M	2.75	1.38	.87	45.0	1.772	.81	11.0	.47	1.091	MKM 4772	M10 x 40	G30	1.5
		1504-12-12M							M10x1.5			-----	-----	---	
25	25	1501-16-16M	3.25	1.62	1.10	53.0	2.086	.98	13.0	.55	1.358	MKM 4773	M12 x 50	G35	2.5
		1504-16-16M							M12x1.75			-----	-----	---	
32	32	1501-20-20M	3.50	1.75	1.10	63.0	2.480	1.24	13.0	.63	1.701	MKM 4774	M12 x 50	G40	2.9
		1504-20-20M							M12x1.75			-----	-----	---	
40	40	1501-24-24M	4.00	2.00	1.38	70.0	2.756	1.48	18.0	.71	1.933	MK 4775	M16 x 60	G50	4.7
		1504-24-24M							M16x2			-----	-----	---	
50	50	1501-32-32M	4.50	2.25	1.38	80.0	3.150	1.87	18.0	.79	2.406	MKM 4776	M16 x 60	G60	5.7
		1504-32-32M							M16x2			-----	-----	---	
65	65	1501-40-40M	5.50	2.75	1.75	100.0	3.937	2.36	22.0	.86	3.035	MKM 4777	M20 x 75	G75	10.4
		1504-40-40M							M20x2.5			-----	-----	---	
80	80	1501-48-48M	6.25	3.12	1.75	112.0	4.409	2.80	24.0	.98	3.543	MKM 4778	M22 x 80	G85	13.0
		1504-48-48M							M22x2.5			-----	-----	---	



MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

JIS B 2291 BOLT PATTERN (210K)										TYPE SSA & SSB					
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Emm	E	F	Gmm	H	K	MOUNTING KIT ^①			WT
									Jmm			PART NO.	SCREW SIZE	O-RING	
15	15	1505-08-08M	2.25	1.12	.87	36.0	1.417	.63	11.0	.43	.874	MKM 4571	M10 x 40	G25	1.0
		1506-08-08M							M10x1.5			-----	-----	---	
20	20	1505-12-12M	2.25	1.12	.87	40.0	1.574	.81	11.0	.47	1.091	MKM 4572	M10 x 40	G30	.9
		1506-12-12M							M10x1.5			-----	-----	---	
25	25	1505-16-16M	2.75	1.38	1.10	48.0	1.890	.98	13.0	.55	1.358	MKM 4573	M12 x 50	G35	1.7
		1506-16-16M							M12x1.75			-----	-----	---	
32	32	1505-20-20M	3.00	1.50	1.10	56.0	2.205	1.24	13.0	.63	1.701	MKM 4574	M12 x 50	G40	1.4
		1506-20-20M							M12x1.75			-----	-----	---	
40	40	1505-24-24M	3.75	1.88	1.38	65.0	2.559	1.48	18.0	.71	1.933	MKM 4575	M16 x 60	G50	3.9
		1506-24-24M							M16x2			-----	-----	---	
50	50	1505-32-32M	4.00	2.00	1.38	73.0	2.874	1.87	18.0	.79	2.406	MKM 4576	M16 x 60	G60	4.3
		1506-32-32M							M16x2			-----	-----	---	
65	65	1505-40-40M	5.00	2.50	1.75	92.0	3.622	2.36	22.0	.86	3.035	MKM 4577	M20 x 75	G75	8.6
		1506-40-40M							M20x2.5			-----	-----	---	
80	80	1505-48-48M	5.50	2.75	1.75	103.0	4.055	2.80	24.0	.98	3.543	MKM 4578	M22 x 80	G85	9.5
		1506-48-48M							M22x2.5			-----	-----	---	

① Order Separately

® Also Available for JIS O-Ring and American Pipe or American O-Ring and American Pipe

NOTE: Dimensions are in Inches Unless Otherwise Noted.

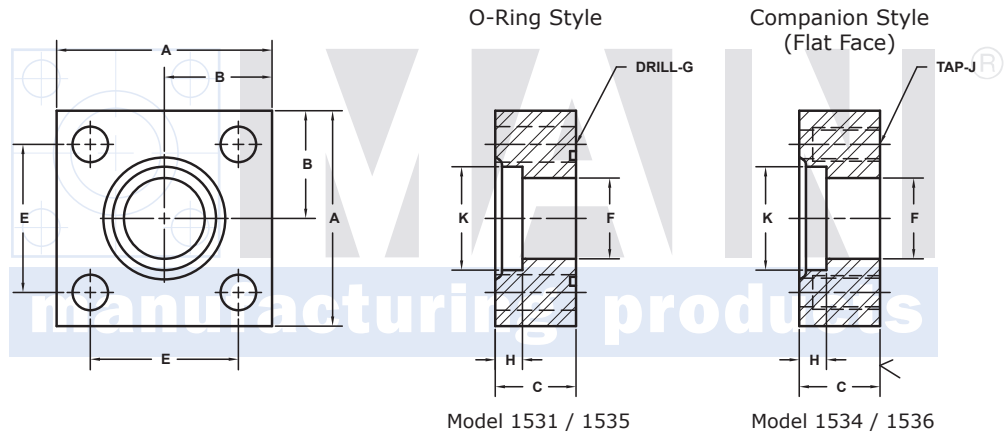
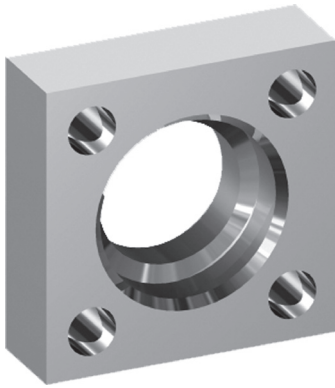
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SOCKET WELD PIPE IN-LINE FLANGES

For American O-Ring and American Pipe ®

JIS B 2291 BOLT PATTERN (210K)									TYPE SHA & SHB (TAPPED)						
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Emm	E	F	Gmm	H	K	MOUNTING KIT①			WT
									Jmm			PART NO.	SCREW SIZE	O-RING	
15	1½	1531-08-08M	2.50	1.25	.87	40.0	1.574	.63	11.0	.50	.860	MKM	M10 x 40	213	1.3
		1534-08-08M							M10x1.5			-----	-----	---	
20	¾	1531-12-12M	2.75	1.38	.87	45.0	1.772	.81	11.0	.50	1.070	MKM	M10 x 40	216	1.5
		1534-12-12M							M10x1.5			-----	-----	---	
25	1	1531-16-16M	3.25	1.62	1.10	53.0	2.086	.98	13.0	.50	1.335	MKM 1504	M12 x 50	219	2.5
		1534-16-16M							M12x1.75			-----	-----	---	
32	1¼	1531-20-20M	3.50	1.75	1.10	63.0	2.480	1.24	13.0	.50	1.680	MKM 1502	M12 x 50	222	2.9
		1534-20-20M							M12x1.75			-----	-----	---	
40	1½	1531-24-24M	4.00	2.00	1.38	70.0	2.756	1.48	18.0	.62	1.920	MK 515	M16 x 60	225	4.7
		1534-24-24M							M16x2			-----	-----	---	
50	2	1531-32-32M	4.50	2.25	1.38	80.0	3.150	1.87	18.0	.62	2.411	MKM	M16 x 60	228	5.7
		1534-32-32M							M16x2			-----	-----	---	
65	2½	1531-40-40M	5.50	2.75	1.75	100.0	3.937	2.36	22.0	.75	2.911	MKM 5594	M20 x 75	233	10.4
		1534-40-40M							M20x2.5			-----	-----	---	
80	3	1531-48-48M	6.25	3.12	1.75	112.0	4.409	2.80	24.0	.75	3.540	MKM	M22 x 80	236	13.0
		1534-48-48M							M22x2.5			-----	-----	---	

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

JIS B 2291 BOLT PATTERN (210K)										TYPE SSA & SSB					
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Emm	E	F	Gmm	H	K	MOUNTING KIT®			WT
									Jmm			PART NO.	SCREW SIZE	O-RING	
15	1½	1535-08-08M	2.25	1.12	.87	36.0	1.417	.63	11.0	.50	.860	MKM	M10 x 40	213	1.0
		1536-08-08M							M10x1.5			-----	-----	---	
20	¾	1535-12-12M	2.25	1.12	.87	40.0	1.574	.81	11.0	.50	1.070	MKM	M10 x 40	216	.9
		1536-12-12M							M10x1.5			-----	-----	---	
25	1	1535-16-16M	2.75	1.38	1.10	48.0	1.890	.98	13.0	.50	1.335	MKM 1504	M12 x 50	219	1.7
		1536-16-16M							M12x1.75			-----	-----	---	
32	1¼	1535-20-20M	3.00	1.50	1.10	56.0	2.205	1.24	13.0	.50	1.680	MKM 1502	M12 x 50	222	1.4
		1536-20-20M							M12x1.75			-----	-----	---	
40	1½	1535-24-24M	3.75	1.88	1.38	65.0	2.559	1.48	18.0	.62	1.920	MKM 515	M16 x 60	225	3.9
		1536-24-24M							M16x2			-----	-----	---	
50	2	1535-32-32M	4.00	2.00	1.38	73.0	2.874	1.87	18.0	.62	2.411	MKM	M16 x 60	228	4.3
		1536-32-32M							M16x2			-----	-----	---	
65	2½	1535-40-40M	5.00	2.50	1.75	92.0	3.622	2.36	22.0	.75	2.911	MKM 5594	M20 x 75	233	8.6
		1536-40-40M							M20x2.5			-----	-----	---	
80	3	1535-48-48M	5.50	2.75	1.75	103.0	4.055	2.80	24.0	.75	3.540	MKM	M22 x 80	236	9.5
		1536-48-48M							M22x2.5			-----	-----	---	

① Order Separately

⑥ Also Available for JIS O-Ring and JIS Pipe or JIS O-Ring and American Pipe

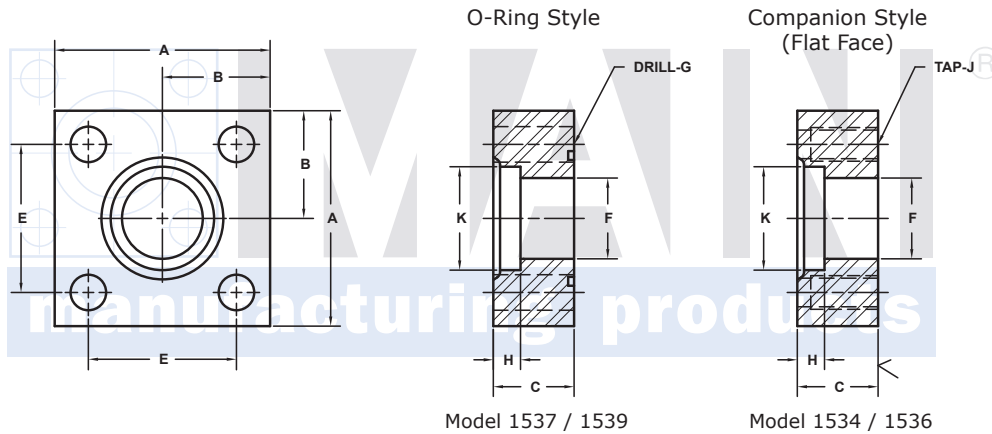
NOTE: Dimensions are in Inches Unless Otherwise Noted.

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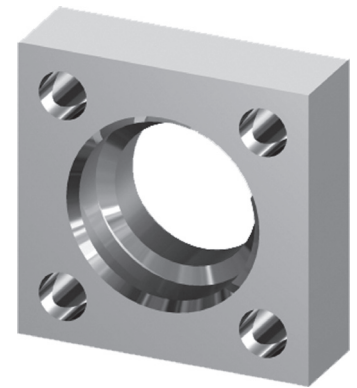
SOCKET WELD PIPE IN-LINE FLANGES

For JIS O-Ring and American Pipe ®

JIS B 2291 BOLT PATTERN (210K)										TYPE SHA & SHB (TAPPED)					
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Emm	E	F	Gmm	H	K	MOUNTING KIT®			WT
									Jmm			PART NO.	SCREW SIZE	O-RING	
15	1½	1537-08-08M	2.50	1.25	.87	40.0	1.574	.63	11.0	.50	.860	MKM 4771	M10 x 40	G25	1.3
		1534-08-08M							M10x1.5			-----	-----	---	
20	¾	1537-12-12M	2.75	1.38	.87	45.0	1.772	.81	11.0	.50	1.070	MKM 4772	M10 x 40	G30	1.5
		1534-12-12M							M10x1.5			-----	-----	---	
25	1	1537-16-16M	3.25	1.62	1.10	53.0	2.086	.98	13.0	.50	1.335	MKM 4773	M12 x 50	G35	2.5
		1534-16-16M							M12x1.75			-----	-----	---	
32	1¼	1537-20-20M	3.50	1.75	1.10	63.0	2.480	1.24	13.0	.50	1.680	MKM 4774	M12 x 50	G40	2.9
		1534-20-20M							M12x1.75			-----	-----	---	
40	1½	1537-24-24M	4.00	2.00	1.38	70.0	2.756	1.48	18.0	.62	1.920	MK 4775	M16 x 60	G50	4.7
		1534-24-24M							M16x2			-----	-----	---	
50	2	1537-32-32M	4.50	2.25	1.38	80.0	3.150	1.87	18.0	.62	2.411	MKM 4776	M16 x 60	G60	5.7
		1534-32-32M							M16x2			-----	-----	---	
65	2½	1537-40-40M	5.50	2.75	1.75	100.0	3.937	2.36	22.0	.75	2.911	MKM 4777	M20 x 75	G75	10.4
		1534-40-40M							M20x2.5			-----	-----	---	
80	3	1537-48-48M	6.25	3.12	1.75	112.0	4.409	2.80	24.0	.75	3.540	MKM 4778	M22 x 80	G85	13.0
		1534-48-48M							M22x2.5			-----	-----	---	



MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

JIS B 2291 BOLT PATTERN (210K)										TYPE SSA & SSB					
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Emm	E	F	Gmm	H	K	MOUNTING KIT ^①			WT
									Jmm			PART NO.	SCREW SIZE	O-RING	
15	½	1539-08-08M	2.25	1.12	.87	36.0	1.417	.63	11.0	.50	.860	MKM 4571	M10 x 40	G25	1.0
		1536-08-08M							M10x1.5			-----	-----	---	
20	¾	1539-12-12M	2.25	1.12	.87	40.0	1.574	.81	11.0	.50	1.070	MKM 4572	M10 x 40	G30	.9
		1536-12-12M							M10x1.5			-----	-----	---	
25	1	1539-16-16M	2.75	1.38	1.10	48.0	1.890	.98	13.0	.50	1.335	MKM 4573	M12 x 50	G35	1.7
		1536-16-16M							M12x1.75			-----	-----	---	
32	1¼	1539-20-20M	3.00	1.50	1.10	56.0	2.205	1.24	13.0	.50	1.680	MKM 4574	M12 x 50	G40	1.4
		1536-20-20M							M12x1.75			-----	-----	---	
40	1½	1539-24-24M	3.75	1.88	1.38	65.0	2.559	1.48	18.0	.62	1.920	MKM 4575	M16 x 60	G50	3.9
		1536-24-24M							M16x2			-----	-----	---	
50	2	1539-32-32M	4.00	2.00	1.38	73.0	2.874	1.87	18.0	.62	2.411	MKM 4576	M16 x 60	G60	4.3
		1536-32-32M							M16x2			-----	-----	---	
65	2½	1539-40-40M	5.00	2.50	1.75	92.0	3.622	2.36	22.0	.75	2.911	MKM 4577	M20 x 75	G75	8.6
		1536-40-40M							M20x2.5			-----	-----	---	
80	3	1539-48-48M	5.50	2.75	1.75	103.0	4.055	2.80	24.0	.75	3.540	MKM 4578	M22 x 80	G85	9.5
		1536-48-48M							M22x2.5			-----	-----	---	

① Order Separately

® Also Available for JIS O-Ring and JIS Pipe or American O-Ring and American Pipe

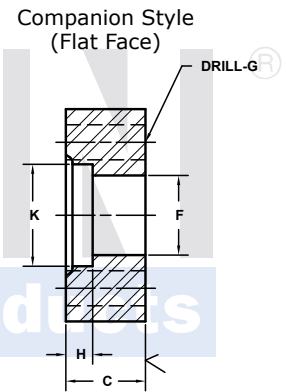
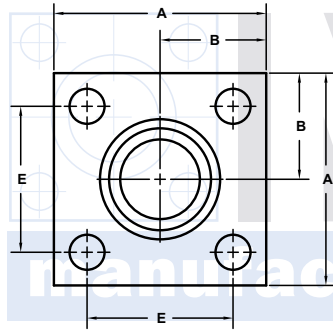
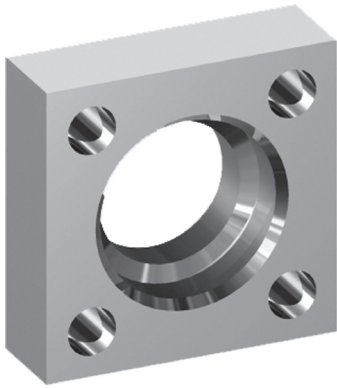
NOTE: Dimensions are in Inches Unless Otherwise Noted.

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SOCKET WELD PIPE IN-LINE FLANGES

JIS B 2291 BOLT PATTERN (210K)									TYPE SHB (CLEARANCE) x JIS Pipe						
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Emm	E	F	Gmm	H	K	MOUNTING KIT①			WT
												PART NO.	SCREW SIZE	O-RING	
15	15	1502-08-08M	2.50	1.25	.87	40.0	1.574	.63	11.0	.43	.874	-----	-----	---	1.3
20	20	1502-12-12M	2.75	1.38	.87	45.0	1.772	.81	11.0	.47	1.091	-----	-----	---	1.5
25	25	1502-16-16M	3.25	1.62	1.10	53.0	2.086	.98	13.0	.55	1.358	-----	-----	---	2.5
32	32	1502-20-20M	3.50	1.75	1.10	63.0	2.480	1.24	13.0	.63	1.701	-----	-----	---	2.9
40	40	1502-24-24M	4.00	2.00	1.38	70.0	2.756	1.48	18.0	.71	1.933	-----	-----	---	4.7
50	50	1502-32-32M	4.50	2.25	1.38	80.0	3.150	1.87	18.0	.79	2.406	-----	-----	---	5.7
65	65	1502-40-40M	5.50	2.75	1.75	100.0	3.937	2.36	22.0	.86	3.035	-----	-----	---	10.4
80	80	1502-48-48M	6.25	3.12	1.75	112.0	4.409	2.80	24.0	.98	3.543	-----	-----	---	13.0

MATERIAL:
Low Carbon Steel



Model 1502 / 1532

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

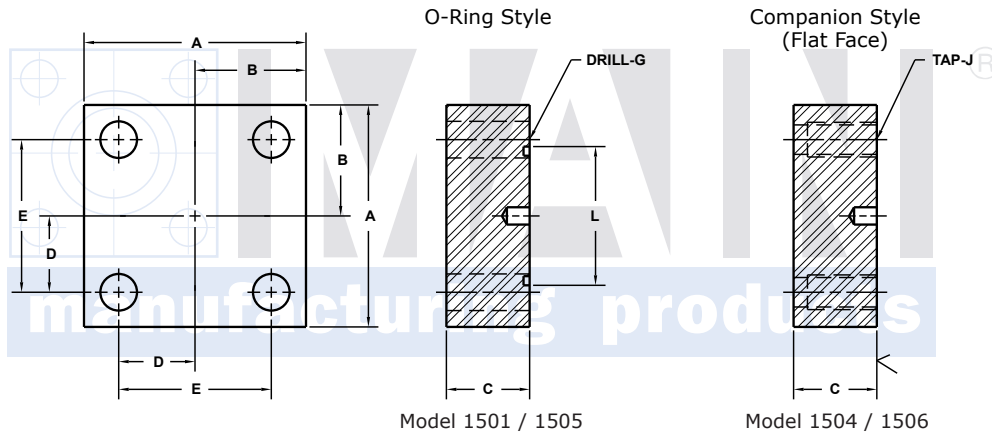
JIS B 2291 BOLT PATTERN (210K)								TYPE SHB (CLEARANCE) x American Pipe							
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Emm	E	F	Gmm	H	K	MOUNTING KIT①			WT
												PART NO.	SCREW SIZE	O-RING	
15	½	1532-08-08M	2.50	1.25	.87	40.0	1.574	.63	11.0	.50	.860	-----	-----	---	1.3
20	¾	1532-12-12M	2.75	1.38	.87	45.0	1.772	.81	11.0	.50	1.070	-----	-----	---	1.5
25	1	1532-16-16M	3.25	1.62	1.10	53.0	2.086	.98	13.0	.50	1.335	-----	-----	---	2.5
32	1¼	1532-20-20M	3.50	1.75	1.10	63.0	2.480	1.24	13.0	.50	1.680	-----	-----	---	2.9
40	1½	1532-24-24M	4.00	2.00	1.38	70.0	2.756	1.48	18.0	.62	1.920	-----	-----	---	4.7
50	2	1532-32-32M	4.50	2.25	1.38	80.0	3.150	1.87	18.0	.62	2.411	-----	-----	---	5.7
65	2½	1532-40-40M	5.50	2.75	1.75	100.0	3.937	2.36	22.0	.75	2.911	-----	-----	---	10.4
80	3	1532-48-48M	6.25	3.12	1.75	112.0	4.409	2.80	24.0	.75	3.540	-----	-----	---	13.0

① Order Separately

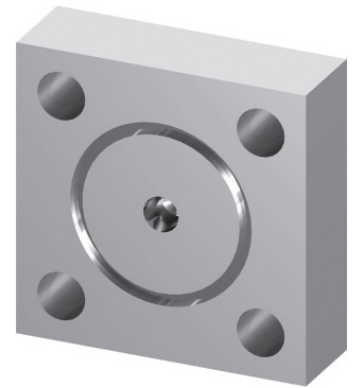
BLIND FLANGES

For JIS O-Ring ®

JIS B 2291 BOLT PATTERN (210K)								TYPE SHA & SHB (TAPPED)							
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Emm	E		Gmm			MOUNTING KIT®			WT
									Jmm			PART NO.	SCREW SIZE	O-RING	
15	NA	1501-08-00M	2.50	1.25	.87	40.0	1.574		11.0			MKM 4771	M10 x 40	G25	1.5
		1504-08-00M							M10x1.5			-----	-----	---	
20	NA	1501-12-00M	2.75	1.38	.87	45.0	1.772		11.0			MKM 4772	M10 x 40	G30	1.9
		1504-12-00M							M10x1.5			-----	-----	---	
25	NA	1501-16-00M	3.25	1.62	1.10	53.0	2.086		13.0			MKM 4773	M12 x 50	G35	3.2
		1504-16-00M							M12x1.75			-----	-----	---	
32	NA	1501-20-00M	3.50	1.75	1.10	63.0	2.480		13.0			MKM 4774	M12 x 50	G40	3.7
		1504-20-00M							M12x1.75			-----	-----	---	
40	NA	1501-24-00M	4.00	2.00	1.38	70.0	2.756		18.0			MK 4775	M16 x 60	G50	6.0
		1504-24-00M							M16x2			-----	-----	---	
50	NA	1501-32-00M	4.50	2.25	1.38	80.0	3.150		18.0			MKM 4776	M16 x 60	G60	7.6
		1504-32-00M							M16x2			-----	-----	---	
65	NA	1501-40-00M	5.50	2.75	1.75	100.0	3.937		22.0			MKM 4777	M20 x 75	G75	14.3
		1504-40-00M							M20x2.5			-----	-----	---	
80	NA	1501-48-00M	6.25	3.12	1.75	112.0	4.409		24.0			MKM 4778	M22 x 80	G85	18.6
		1504-48-00M							M22x2.5			-----	-----	---	



MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

JIS B 2291 BOLT PATTERN (210K)									TYPE SSA & SSB						
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Emm	E		Gmm			MOUNTING KIT ^①			WT
									Jmm			PART NO.	SCREW SIZE	O-RING	
15	NA	1505-08-00M	2.25	1.12	.87	36.0	1.417		11.0			MKM 4571	M10 x 40	G25	1.4
		1506-08-00M							M10x1.5			-----	-----	---	
20	NA	1505-12-00M	2.25	1.12	.87	40.0	1.574		11.0			MKM 4572	M10 x 40	G30	1.4
		1506-12-00M							M10x1.5			-----	-----	---	
25	NA	1505-16-00M	2.75	1.38	1.10	48.0	1.890		13.0			MKM 4573	M12 x 50	G35	2.5
		1506-16-00M							M12x1.75			-----	-----	---	
32	NA	1505-20-00M	3.00	1.50	1.10	56.0	2.205		13.0			MKM 4574	M12 x 50	G40	2.7
		1506-20-00M							M12x1.75			-----	-----	---	
40	NA	1505-24-00M	3.75	1.88	1.38	65.0	2.559		18.0			MKM 4575	M16 x 60	G50	5.3
		1506-24-00M							M16x2			-----	-----	---	
50	NA	1505-32-00M	4.00	2.00	1.38	73.0	2.874		18.0			MKM 4576	M16 x 60	G60	6.2
		1506-32-00M							M16x2			-----	-----	---	
65	NA	1505-40-00M	5.00	2.50	1.75	92.0	3.622		22.0			MKM 4577	M20 x 75	G75	11.8
		1506-40-00M							M20x2.5			-----	-----	---	
80	NA	1505-48-00M	5.50	2.75	1.75	103.0	4.055		24.0			MKM 4578	M22 x 80	G85	14.3
		1506-48-00M							M22x2.5			-----	-----	---	

① Order Separately

® Also Available for American O-Ring

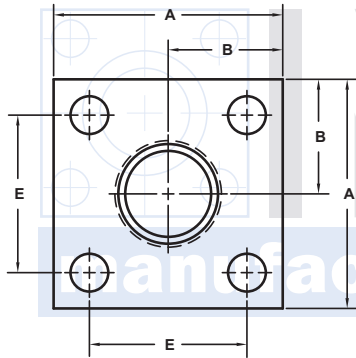
NOTE: Dimensions are in Inches Unless Otherwise Noted.

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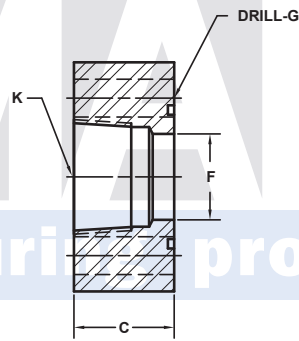
NPTF THREADED IN-LINE FLANGES

JIS B 2291 BOLT PATTERN (210K)									TYPE SH(A & B)					
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Emm	E	F	Gmm	K NPTF	MOUNTING KIT①			WT
									Jmm		PART NO.	SCREW SIZE	O-RING	
15	1½	1507-08-08M	2.50	1.25	1.25	40.0	1.574	.63	11.0	1/2	MKM 5507	M10 x 50	G25	1.9
		1508-08-08M							M10x1.5		-----	-----	---	
20	¾	1507-12-12M	2.75	1.38	1.25	45.0	1.772	.75	11.0	3/4	MKM 5508	M10 x 50	G30	2.3
		1508-12-12M							M10x1.5		-----	-----	---	
25	1	1507-16-16M	3.25	1.62	1.50	53.0	2.086	1.00	13.0	1	MKM 4588	M12 x 60	G35	3.8
		1508-16-16M							M12x1.75		-----	-----	---	
32	1¼	1507-20-20M	3.50	1.75	1.50	63.0	2.480	1.25	13.0	1 1/4	MKM 4589	M12 x 60	G40	4.2
		1508-20-20M							M12x1.75		-----	-----	---	
40	1½	1507-24-24M	4.00	2.00	1.75	70.0	2.756	1.50	18.0	1 1/2	MKM 5509	M16 x 70	G50	6.1
		1508-24-24M							M16x2		-----	-----	---	
50	2	1507-32-32M	4.50	2.25	1.75	80.0	3.150	1.94	18.0	2	MKM 5521	M16 x 70	G60	7.3
		1508-32-32M							M16x2		-----	-----	---	
65	2½	1507-40-40M	5.50	2.75	2.00	100.0	3.937	2.44	22.0	2 1/2	MKM 4592	M20 x 80	G75	12.8
		1508-40-40M							M20x2.5		-----	-----	---	
80	3	1507-48-48M	6.25	3.12	2.25	112.0	4.409	2.80	24.0	3	MKM 4593	M22 x 90	G85	17.9
		1508-48-48M							M22x2.5		-----	-----	---	

MATERIAL:
Low Carbon Steel^⑤

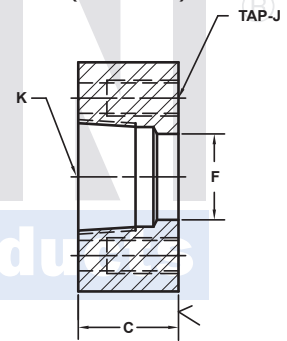


O-Ring Style



Model 1507 / 1509

Companion Style
(Flat Face)



Model 1508 / 1510

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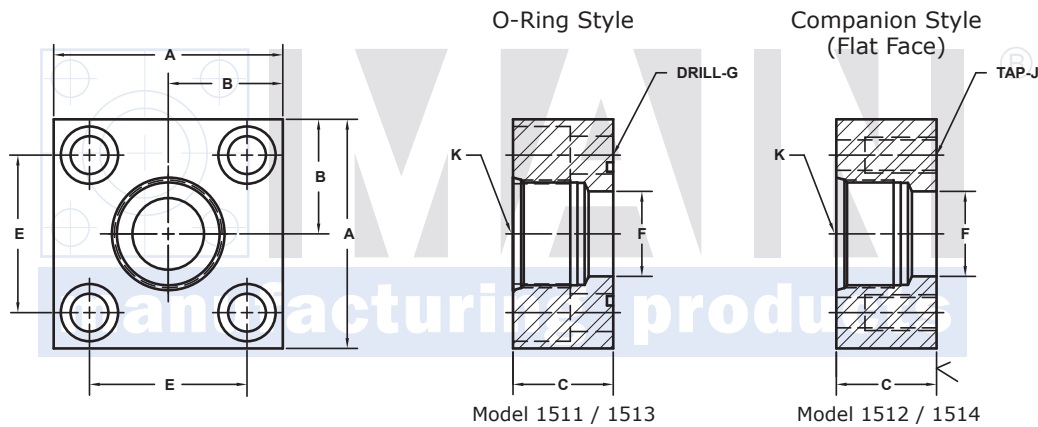
JIS B 2291 BOLT PATTERN (210K)									TYPE SS(A & B)					
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Emm	E	F	Gmm	K NPTF	MOUNTING KIT①			WT
									Jmm		PART NO.	SCREW SIZE	O-RING	
15	1½	1509-08-08M	2.25	1.12	1.25	36.0	1.417	.63	11.0	1/2	MKM 5507	M10 x 50	G25	1.4
		1510-08-08M							M10x1.5		-----	-----	---	
20	¾	1509-12-12M	2.25	1.12	1.25	40.0	1.574	.75	11.0	3/4	MKM 5508	M10 x 50	G30	1.4
		1510-12-12M							M10x1.5		-----	-----	---	
25	1	1509-16-16M	2.75	1.38	1.50	48.0	1.890	1.00	13.0	1	MKM 4588	M12 x 60	G35	2.5
		1510-16-16M							M12x1.75		-----	-----	---	
32	1¼	1509-20-20M	3.00	1.50	1.50	56.0	2.205	1.25	13.0	1 1/4	MKM 4589	M12 x 60	G40	2.7
		1510-20-20M							M12x1.75		-----	-----	---	
40	1½	1509-24-24M	3.75	1.88	1.75	65.0	2.559	1.50	18.0	1 1/2	MKM 5509	M16 x 70	G50	5.3
		1510-24-24M							M16x2		-----	-----	---	
50	2	1509-32-32M	4.00	2.00	1.75	73.0	2.874	1.94	18.0	2	MKM 5521	M16 x 70	G60	5.6
		1510-32-32M							M16x2		-----	-----	---	
65	2½	1509-40-40M	5.00	2.50	2.00	92.0	3.622	2.44	22.0	2 1/2	MKM 4592	M20 x 80	G75	9.8
		1510-40-40M							M20x2.5		-----	-----	---	
80	3	1509-48-48M	5.50	2.75	2.25	103.0	4.055	2.80	24.0	3	MKM 4593	M22 x 90	G85	12.6
		1510-48-48M							M22x2.5		-----	-----	---	

① Order Separately

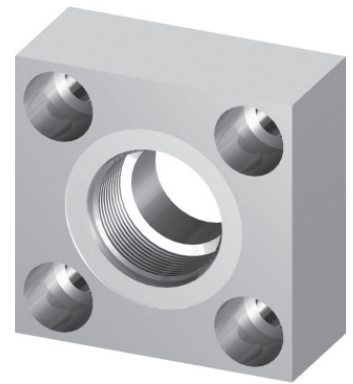
⑤ May Contain Lead

SAE J1926 THREADED IN-LINE FLANGES

JIS B 2291 BOLT PATTERN (210K)										TYPE SH(A & B)				
FLANGE SIZE	ORB	PART NUMBER	A	B	C	Emm	E	F	Gmm	K	MOUNTING KIT ^①			WT
									Jmm		PART NO.	SCREW SIZE	O-RING	
15	-8	1511-08-08M	2.50	1.25	1.25	40.0	1.574	.63	11.0	3/4-16	MKM 4586	M10 x 35	G25	1.9
		1512-08-08M							M10x1.5		-----	-----	---	
20	-10	1511-12-10M	2.75	1.38	1.50	45.0	1.772	.50	11.0	7/8-14	MKM 5505	M10 x 40	G30	2.4
		1512-12-10M							M10x1.5		-----	-----	---	
20	-12	1511-12-12M	2.75	1.38	1.50	45.0	1.772	.75	11.0	1 1/16-12	MKM 5505	M10 x 40	G30	2.3
		1512-12-12M							M10x1.5		-----	-----	---	
25	-14	1511-16-14M	3.25	1.62	1.50	53.0	2.086	.75	13.0	1 3/16-12	MKM 5506	M12 x 40	G35	3.8
		1512-16-14M							M12x1.75		-----	-----	---	
25	-16	1511-16-16M	3.25	1.62	1.50	53.0	2.086	1.00	13.0	1 5/16-12	MKM 5506	M12 x 40	G35	3.6
		1512-16-16M							M12x1.75		-----	-----	---	
32	-20	1511-20-20M	3.50	1.75	1.50	63.0	2.480	1.25	13.0	1 5/8-12	MKM 5526	M12 x 40	G40	4.5
		1512-20-20M							M12x1.75		-----	-----	---	
40	-24	1511-24-24M	4.00	2.00	1.75	70.0	2.756	1.50	18.0	1 7/8-12	MKM 4590	M16 x 45	G50	6.1
		1512-24-24M							M16x2		-----	-----	---	
50	-32	1511-32-32M	4.50	2.25	1.75	80.0	3.150	1.94	18.0	2 1/2-12	MKM 4591	M16 x 45	G60	7.3
		1512-32-32M							M16x2		-----	-----	---	



MATERIAL:
Low Carbon Steel^⑤



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JIS B 2291 BOLT PATTERN (210K)										TYPE SS(A & B)				
FLANGE SIZE	ORB	PART NUMBER	A	B	C	Emm	E	F	Gmm Jmm	K	MOUNTING KIT ^①			WT
									PART NO.		SCREW SIZE	O-RING		
15	-8	1513-08-08M	2.25	1.12	1.25	36.0	1.417	.63	11.0	3/4-16	MKM 4586	M10 x 35	G25	1.4
		1514-08-08M							M10x1.5		-----	-----	---	
20	-10	1513-12-10M	2.50	1.25	1.50	40.0	1.574	.50	11.0	7/8-14	MKM 5505	M10 x 40	G30	2.0
		1514-12-10M							M10x1.5		-----	-----	---	
20	-12	1513-12-12M	2.50	1.25	1.50	40.0	1.574	.75	11.0	1 1/16-12	MKM 5505	M10 x 40	G30	1.9
		1514-12-12M							M10x1.5		-----	-----	---	
25	-14	1513-16-14M	3.00	1.50	1.50	48.0	1.890	.75	13.0	1 3/16-12	MKM 5506	M12 x 40	G35	2.7
		1514-16-14M							M12x1.75		-----	-----	---	
25	-16	1513-16-16M	3.00	1.50	1.50	48.0	1.890	1.00	13.0	1 5/16-12	MKM 5506	M12 x 40	G35	2.6
		1514-16-16M							M12x1.75		-----	-----	---	
32	-20	1513-20-20M	3.25	1.62	1.50	56.0	2.205	1.25	13.0	1 5/8-12	MKM 5526	M12 x 40	G40	3.0
		1514-20-20M							M12x1.75		-----	-----	---	
40	-24	1513-24-24M	3.75	1.88	1.75	65.0	2.559	1.50	18.0	1 7/8-12	MKM 4590	M16 x 45	G50	4.3
		1514-24-24M							M16x2		-----	-----	---	
50	-32	1513-32-32M	4.00	2.00	1.75	73.0	2.874	1.94	18.0	2 1/2-12	MKM 4591	M16 x 45	G60	4.5
		1514-32-32M							M16x2		-----	-----	---	

① Order Separately

⑤ May Contain Lead

NOTE: The Pressure Rating of the Assembly Should NOT Exceed the Lower of the Flange Pad or the Fitting. Check the Fitting Manufacturer for Details.

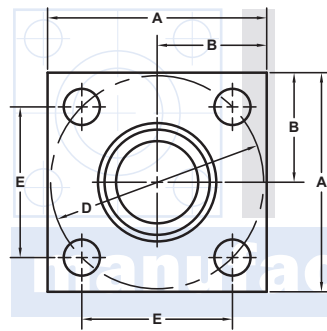
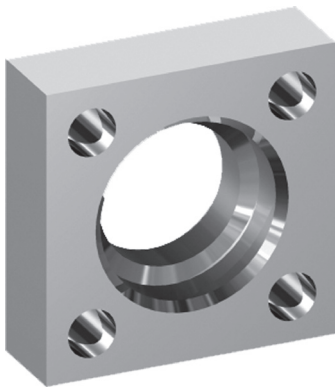
NOTE: Dimensions are in Inches Unless Otherwise Noted.

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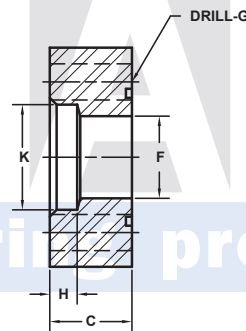
SOCKET WELD PIPE IN-LINE FLANGES

ISO 6164 BOLT PATTERN										250 BAR SERIES						
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Dmm	E	F	Gmm Jmm	H	K	MOUNTING KIT®			WT	
									PART NO.			SCREW SIZE	O-RING			
10	3/8	1631-06-06M	PLEASE USE THE 400 BAR SERIES FOUND BELOW. THE BLOCK SIZE, BOLT PATTERN AND THE O-RING ARE IDENTICAL IN FLANGE SIZES 10 - 38. IF YOU HAVE ANY QUESTIONS PLEASE CALL ENGINEERING AT 1-800-521-7918.													
		1632-06-06M														
13	1/2	1631-08-08M														
		1632-08-08M														
19	3/4	1631-12-12M														
		1632-12-12M														
25	1	1631-16-16M														
		1632-16-16M														
32	1 1/4	1631-20-20M														
		1632-20-20M														
38	1 1/2	1631-24-24M														
		1632-24-24M														
51	2	1631-32-32M	4.00	2.00	1.60	98	2.728	1.94	17.5	.62	2.411	MKM 3531	M16 x 65	228	4.9	
		1632-32-32M							M16x2			-----	-----	---		
56	2 1/2	1631-40-40M	4.75	2.38	1.88	118	3.285	2.44	22.0	.75	2.911	MKM 5573	M20 x 80	232	7.8	
		1632-40-40M							M20x2.5			-----	-----	---		
63	3	1631-48-48M	5.50	2.75	2.28	145	4.037	2.94	22.0	.75	3.540	MKM 5558	M20 x 90	237	12.8	
		1632-48-48M							M20x2.5			-----	-----	---		

MATERIAL:
Low Carbon Steel

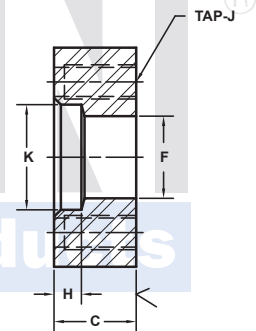


O-Ring Style



Model 1631 / 1635

Companion Style (Flat Face)



Model 1632 / 1636

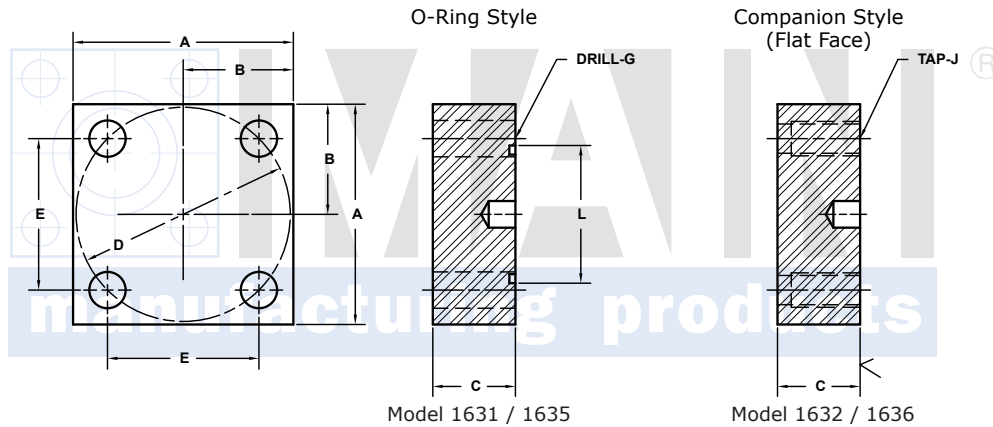
3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

ISO 6164 BOLT PATTERN										400 BAR SERIES						
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Dmm	E	F	Gmm	H	K	MOUNTING KIT ^①			WT	
									Jmm			PART NO.	SCREW SIZE	O-RING		
10	3/8	1635-06-06M	1.50	.75	.73	35	.974	.44	6.5	.38	.688	MKM 5546	M6 x 30	115	.4	
		1636-06-06M							M6x1			-----	-----	---		
13	1/2	1635-08-08M	1.75	.88	.81	42	1.170	.50	9.0	.50	.860	MKM 512	M8 x 35	210	.5	
		1636-08-08M							M8x1.25			-----	-----	---		
19	3/4	1635-12-12M	2.00	1.00	.90	50	1.392	.75	9.0	.50	1.070	MKM 5559	M8 x 35	214	.7	
		1636-12-12M							M8x1.25			-----	-----	---		
25	1	1635-16-16M	2.50	1.25	1.00	62	1.726	1.00	11.0	.50	1.335	MKM 503	M10 x 40	219	1.3	
		1636-16-16M							M10x1.5			-----	-----	---		
32	1 1/4	1635-20-20M	3.00	1.50	1.20	73	2.032	1.25	13.5	.50	1.680	MKM 1502	M12 x 50	222	2.2	
		1636-20-20M							M12x1.75			-----	-----	---		
38	1 1/2	1635-24-24M	3.50	1.75	1.44	85	2.366	1.50	17.5	.62	1.920	MKM 515	M16 x 60	225	3.4	
		1636-24-24M							M16x2			-----	-----	---		
51	2	1635-32-32M	4.00	2.00	1.60	98	2.728	1.69	17.5	.62	2.411	MKM 5560	M16 x 65	331	5.0	
		1636-32-32M							M16x2			-----	-----	---		
56	2 1/2	1635-40-40M	4.75	2.38	1.98	118	3.285	2.12	22.0	.75	2.911	MKM 5538	M20 x 80	335	8.5	
		1636-40-40M							M20x2.5			-----	-----	---		
63	3	1635-48-48M	6.00	3.00	2.12	145	4.037	2.32	26.0	.75	3.540	MKM 5561	M24 x 90	337	15.6	
		1636-48-48M							M24x3			-----	-----	---		
70	3 1/2	1635-56-56M	6.50	3.25	2.46	160	4.454	2.73	26.0	.75	4.045	MKM 5562	M24 x 100	340	21.3	
		1636-56-56M							M24x3			-----	-----	---		
80	4	1635-64-64M	7.00	3.50	2.85	175	4.872	3.15	33.0	.75	4.550	MKM 5563	M30 x 120	341	26.8	
		1636-64-64M							M30x3.5			-----	-----	---		

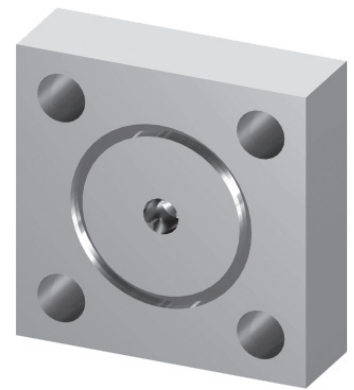
① Order Separately

BLIND FLANGES

ISO 6164 BOLT PATTERN										250 BAR SERIES						
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Dmm	E		Gmm			MOUNTING KIT®			WT	
									Jmm			PART NO.	SCREW SIZE	O-RING		
10	NA	1631-06-00M	PLEASE USE THE 400 BAR SERIES FOUND BELOW. THE BLOCK SIZE, BOLT PATTERN AND THE O-RING ARE IDENTICAL IN FLANGE SIZES 10 - 38. IF YOU HAVE ANY QUESTIONS PLEASE CALL ENGINEERING AT 1-800-521-7918.													
		1632-06-00M														
13	NA	1631-08-00M														
		1632-08-00M														
19	NA	1631-12-00M														
		1632-12-00M														
25	NA	1631-16-00M														
		1632-16-00M														
32	NA	1631-20-00M														
		1632-20-00M														
38	NA	1631-24-00M														
		1632-24-00M														
51	NA	1631-32-00M	4.00	2.00	1.60	98	2.728		17.5			MKM 3531	M16 x 65	228	7.0	
		1632-32-00M							M16x2			-----	-----	---		
56	NA	1631-40-00M	4.75	2.38	1.88	118	3.285		22.0			MKM 5573	M20 x 80	232	11.5	
		1632-40-00M							M20x2.5			-----	-----	---		
63	NA	1631-48-00M	5.50	2.75	2.28	145	4.037		22.0			MKM 5558	M20 x 90	237	19.0	
		1632-48-00M							M20x2.5			-----	-----	---		



MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

ISO 6164 BOLT PATTERN										400 BAR SERIES						
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Dmm	E		Gmm			MOUNTING KIT ^①			WT	
									Jmm			PART NO.	SCREW SIZE	O-RING		
10	NA	1635-06-00M	1.50	.75	.73	35	.974		6.5			MKM 5546	M6 x 30	115	.5	
		M6x1							-----			-----	---			
13	NA	1635-08-00M	1.75	.88	.81	42	1.170		9.0			MKM 512	M8 x 35	210	.7	
		M8x1.25							-----			-----	---			
19	NA	1635-12-00M	2.00	1.00	.90	50	1.392		9.0			MKM 5559	M8 x 35	214	1.2	
		M8x1.25							-----			-----	---			
25	NA	1635-16-00M	2.50	1.25	1.00	62	1.726		11.0			MKM 503	M10 x 40	219	2.0	
		M10x1.5							-----			-----	---			
32	NA	1635-20-00M	3.00	1.50	1.20	73	2.032		13.5			MKM 1502	M12 x 50	222	3.2	
		M12x1.75							-----			-----	---			
38	NA	1635-24-00M	3.50	1.75	1.44	85	2.366		17.5			MKM 515	M16 x 60	225	5.0	
		M16x2							-----			-----	---			
51	NA	1635-32-00M	4.00	2.00	1.60	98	2.728		17.5			MKM 5560	M16 x 65	331	7.0	
		M16x2							-----			-----	---			
56	NA	1635-40-00M	4.75	2.38	1.98	118	3.285		22.0			MKM 5538	M20 x 80	335	12.0	
		M20x2.5							-----			-----	---			
63	NA	1635-48-00M	6.00	3.00	2.12	145	4.037		26.0			MKM 5561	M24 x 90	337	20.5	
		M24x3							-----			-----	---			
70	NA	1635-56-00M	6.50	3.25	2.46	160	4.454		26.0			MKM 5562	M24 x 100	340	28.3	
		M24x3							-----			-----	---			
80	NA	1635-64-00M	7.00	3.50	2.85	175	4.872		33.0			MKM 5563	M30 x 120	341	37.0	
		M30x3.5							-----			-----	---			

① Order Separately

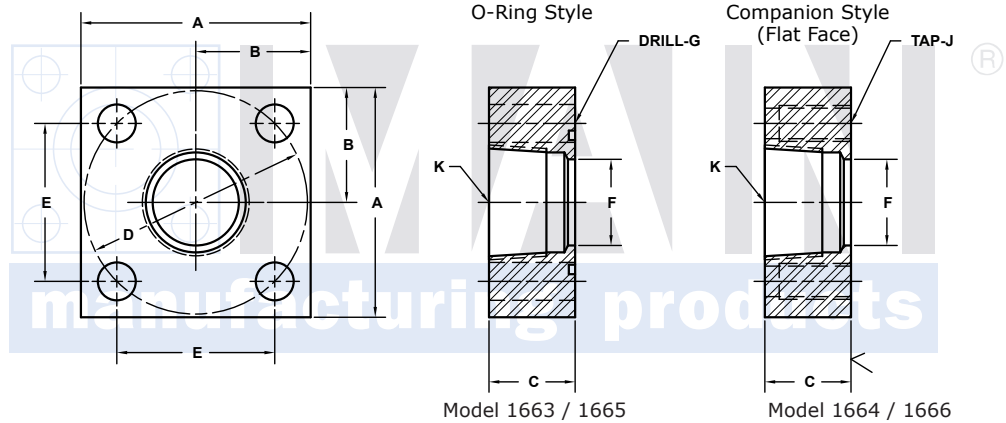
NOTE: Dimensions are in Inches Unless Otherwise Noted.

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NPTF THREADED IN-LINE FLANGES

ISO 6164										250 BAR SERIES					
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Dmm	E	F	Gmm	K	MOUNTING KIT ^①			WT	
									Jmm		PART NO.	BOLT SIZE	O-RING		
10	3/8	1663-06-06M	PLEASE USE THE 400 BAR SERIES FOUND BELOW. THE BLOCK SIZE, BOLT PATTERN AND THE O-RING ARE IDENTICAL IN FLANGE SIZES 10 - 38. IF YOU HAVE ANY QUESTIONS PLEASE CALL ENGINEERING AT 1-800-521-7918.												
		1664-06-06M													
13	1/2	1663-08-08M													
		1664-08-08M													
19	3/4	1663-12-12M													
		1664-12-12M													
25	1	1663-16-16M													
		1664-16-16M													
32	1 1/4	1663-20-20M													
		1664-20-20M													
38	1 1/2	1663-24-24M													
		1664-24-24M													
51	2	1663-32-32M	4.00	2.00	1.75	98	2.728	1.94	17.5	2	MKM 3531	M16 x 65	228	5.0	
		1664-32-32M							M16x2		-----	-----	---		
56	2 1/2	1663-40-40M	4.75	2.38	2.00	118	3.285	2.44	22.0	2 1/2	MKM 5573	M20 x 80	232	8.0	
		M20x2.5							-----		-----	---			
63	3	1663-48-48M	5.50	2.75	2.25	145	4.037	2.94	22.0	3	MKM 5558	M20 x 90	237	13.0	
		M20x2.5							-----		-----	---			

MATERIAL:
Low Carbon Steel^⑤



Model 1663 / 1665

Model 1664 / 1666

3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

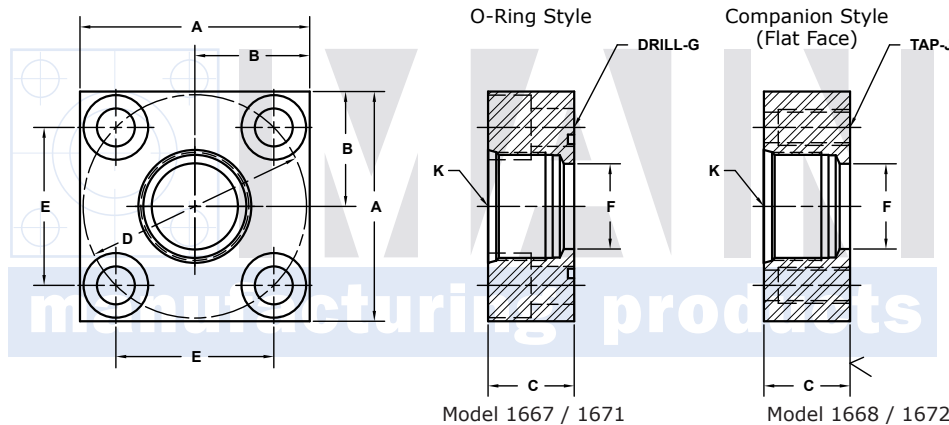
ISO 6164										400 BAR SERIES				
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Dmm	E	F	Gmm	K	MOUNTING KIT①			WT
									Jmm		PART NO.	BOLT SIZE	O-RING	
10	3/8	1665-06-06M	1.50	.75	1.25	35	.974	.44	6.5	3/8	MKM 5564	M6 x 40	115	.7
		M6x1							-----		-----	---		
13	1/2	1665-08-08M	1.75	.88	1.25	42	1.170	.50	9.0	1/2	MKM 519	M8 x 45	210	.9
		M8x1.25							-----		-----	---		
19	3/4	1665-12-12M	2.00	1.00	1.25	50	1.392	.75	9.0	3/4	MKM 5565	M8 x 45	214	1.2
		M8x1.25							-----		-----	---		
25	1	1665-16-16M	2.50	1.25	1.50	62	1.726	1.00	11.0	1	MKM 5566	M10 x 55	219	2.1
		M10x1.5							-----		-----	---		
32	1 1/4	1665-20-20M	3.00	1.50	1.50	73	2.032	1.25	13.5	1 1/4	MKM 522	M12 x 55	222	2.9
		M12x1.75							-----		-----	---		
38	1 1/2	1665-24-24M	3.50	1.75	1.75	85	2.366	1.50	17.5	1 1/2	MKM 527	M16 x 65	225	4.4
		M16x2							-----		-----	---		
51	2	1665-32-32M	4.00	2.00	1.75	98	2.728	1.69	17.5	2	MKM 6503	M16 x 70	331	5.5
		M16x2							-----		-----	---		
56	2 1/2	1665-40-40M	4.75	2.38	2.00	118	3.285	2.12	22.0	2 1/2	MKM 5538	M20 x 80	335	8.6
		M20x2.5							-----		-----	---		
63	3	1665-48-48M	6.00	3.00	2.50	145	4.037	2.32	26.0	3	MKM 5567	M24 x 100	337	18.0
		M24x3							-----		-----	---		
70	3 1/2	1665-56-56M	6.50	3.25	2.50	160	4.454	2.73	26.0	3 1/2	MKM 5562	M24 x 100	340	21.0
		M24x3							-----		-----	---		
80	4	1665-64-64M	7.00	3.50	2.85	175	4.872	3.15	33.0	4	MKM 5563	M30 x 120	341	25.5
		M30x3.5							-----		-----	---		

① Order Separately

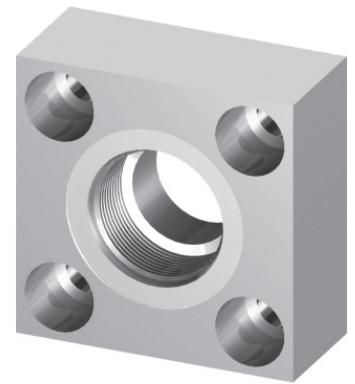
⑤ May Contain Lead

STRAIGHT THREADED IN-LINE FLANGES

ISO 6164 x SAE ORB										250 BAR SERIES ^②				
FLANGE SIZE	PORT SIZE	PART NUMBER	A	B	C	Dmm	E	F	Gmm Jmm	K	MOUNTING KIT ^①			WT
											PART NO.	BOLT SIZE	O-RING	
10	-6	1667-06-06M	1.50	.75	1.25	35	.974	.47	6.5	9/16-18	MKM 5568	M6 x 35	115	.7
		1668-06-06M							M6x1		-----	-----	---	
13	-8	1667-08-08M	1.75	.88	1.25	42	1.170	.50	9.0	3/4-16	MKM 512	M8 x 35	210	.8
		1668-08-08M							M8x1.25		-----	-----	---	
19	-12	1667-12-12M	2.00	1.00	1.50	50	1.392	.75	9.0	1 1/16-12	MKM 5559	M8 x 35	214	1.2
		1668-12-12M							M8x1.25		-----	-----	---	
25	-16	1667-16-16M	2.50	1.25	1.50	62	1.726	1.00	11.0	1 5/16-12	MKM 503	M10 x 40	219	1.8
		1668-16-16M							M10x1.5		-----	-----	---	
32	-20	1667-20-20M	3.00	1.50	1.50	73	2.032	1.25	13.5	1 5/8-12	MKM 1527	M12 x 40	222	2.5
		1668-20-20M							M12x1.75		-----	-----	---	
38	-24	1667-24-24M	3.50	1.75	1.75	85	2.366	1.50	17.5	1 7/8-12	MKM 1544	M16 x 45	225	3.8
		1668-24-24M							M16x2		-----	-----	---	
51	-32	1667-32-32M	4.00	2.00	1.75	98	2.728	1.94	17.5	2 1/2-12	MKM 1524	M16 x 45	228	4.8
		1668-32-32M							M16x2		-----	-----	---	
56	-32	1667-40-32M	4.75	2.38	2.00	118	3.285	2.32	22.0	2 1/2-12	MKM 5570	M20 x 60	232	8.5
		1668-40-32M							M20x2.5		-----	-----	---	
63	-32	1667-48-32M	5.50	2.75	2.25	145	4.037	2.32	22.0	2 1/2-12	MKM 5558	M20 x 90	237	14.7
		1668-48-32M							M20x2.5		-----	-----	---	



MATERIAL:
Low Carbon Steel^⑤



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

ISO 6164 x ISO 6149										250 BAR SERIES ^②				
FLANGE SIZE	PORT SIZE	PART NUMBER	A	B	C	Dmm	E	F	Gmm Jmm	Kmm	MOUNTING KIT ^①			WT
											PART NO.	BOLT SIZE	O-RING	
10	-6	1671-06-06M	1.50	.75	1.25	35	.974	.47	6.5	M16 x 1.5	MKM 5568	M6 x 35	115	.7
		1672-06-06M							M6x1		-----	-----	---	
13	-8	1671-08-08M	1.75	.88	1.25	42	1.170	.50	9.0	M18 x 1.5	MKM 512	M8 x 35	210	.8
		1672-08-08M							M8x1.25		-----	-----	---	
19	-12	1671-12-12M	2.00	1.00	1.50	50	1.392	.75	9.0	M27 x 2	MKM 5559	M8 x 35	214	1.2
		1672-12-12M							M8x1.25		-----	-----	---	
25	-16	1671-16-16M	2.50	1.25	1.50	62	1.726	1.00	11.0	M33 x 2	MKM 503	M10 x 40	219	1.8
		1672-16-16M							M10x1.5		-----	-----	---	
32	-20	1671-20-20M	3.00	1.50	1.50	73	2.032	1.25	13.5	M42 x 2	MKM 1527	M12 x 40	222	2.5
		1672-20-20M							M12x1.75		-----	-----	---	
38	-24	1671-24-24M	3.50	1.75	1.75	85	2.366	1.50	17.5	M48 x 2	MKM 1544	M16 x 45	225	3.8
		1672-24-24M							M16x2		-----	-----	---	
51	-32	1671-32-32M	4.00	2.00	1.75	98	2.728	1.94	17.5	M60 x 2	MKM 1524	M16 x 45	228	4.8
		1672-32-32M							M16x2		-----	-----	---	
56	-32	1671-40-32M	4.75	2.38	2.00	118	3.285	2.12	22.0	M60 x 2	MKM 5570	M20 x 60	232	8.5
		1672-40-32M							M20x2.5		-----	-----	---	
63	-32	1671-48-32M	5.50	2.75	2.25	145	4.037	2.12	22.0	M60 x 2	MKM 5571	M20 x 65	237	14.7
		1672-48-32M							M20x2.5		-----	-----	---	

① Order Separately ② 400BAR Series also available, contact engineering for information

⑤ May Contain Lead

NOTE: The pressure rating of the assembly should not exceed the lower of the flange pad or the fitting. Check the fitting manufacturer for details.

NOTE: DIMENSIONS ARE IN INCHES UNLESS OTHERWISE NOTED.

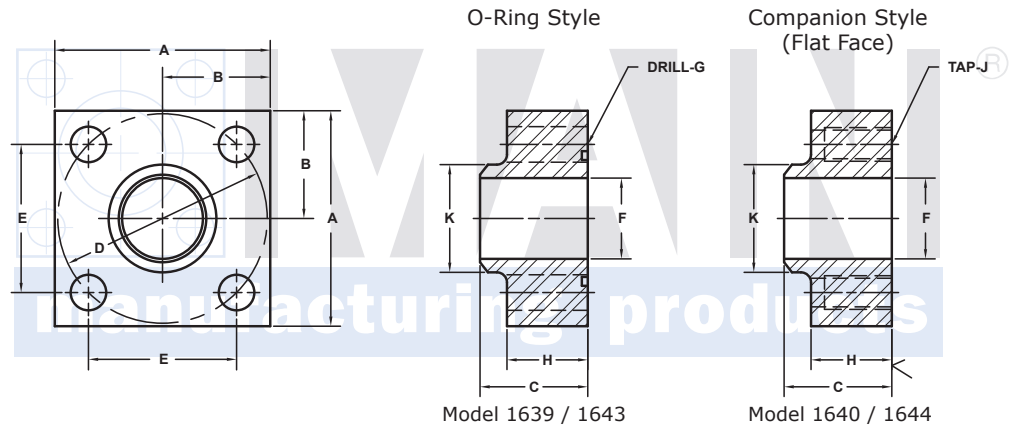
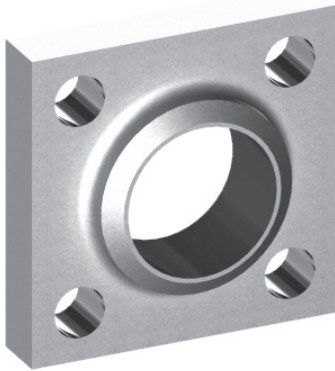
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BUTT WELD IN-LINE FLANGES

For Schedule 80 Pipe ®

ISO 6164 BOLT PATTERN										250 BAR SERIES						
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Dmm	E	F	Gmm	H	K	MOUNTING KIT®			WT	
									Jmm			PART NO.	SCREW SIZE	O-RING		
10	3/8	1639-06-06M	PLEASE USE THE 400 BAR SERIES FOUND BELOW. THE BLOCK SIZE, BOLT PATTERN AND THE O-RING ARE IDENTICAL IN FLANGE SIZES 10 - 38. IF YOU HAVE ANY QUESTIONS PLEASE CALL ENGINEERING AT 1-800-521-7918.													
		1640-06-06M														
13	1½	1639-08-08M														
		1640-08-08M														
19	¾	1639-12-12M														
		1640-12-12M														
25	1	1639-16-16M														
		1640-16-16M														
32	1¼	1639-20-20M														
		1640-20-20M														
38	1½	1639-24-24M														
		1640-24-24M														
51	2	1639-32-32M	4.00	2.00	2.25	98	2.728	1.94	17.5	1.60	2.50	MKM 3531	M16 x 65	228	5.7	
		1640-32-32M							M16x2			-----	-----	---		
56	2½	1639-40-40M	4.75	2.38	2.50	118	3.285	2.32	22.0	1.88	3.00	MKM 5573	M20 x 80	232	9.0	
		1640-40-40M							M20x2.5			-----	-----	---		
63	3	1639-48-48M	5.50	2.75	3.00	145	4.037	2.90	22.0	2.28	3.50	MKM 5558	M20 x 90	237	14.8	
		1640-48-48M							M20x2.5			-----	-----	---		

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

ISO 6164 BOLT PATTERN										400 BAR SERIES					
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Dmm	E	F	Gmm	H	K	MOUNTING KIT®			WT
									Jmm			PART NO.	SCREW SIZE	O-RING	
10	3/8	1643-06-06M	1.50	.75	1.00	35	.974	.42	6.5	.73	.68	MKM 5546	M6 x 30	115	.5
		1644-06-06M							M6x1			-----	-----	---	
13	1/2	1643-08-08M	1.75	.88	1.12	42	1.170	.53	9.0	.81	.88	MKM 512	M8 x 35	210	.7
		1644-08-08M							M8x1.25			-----	-----	---	
19	3/4	1643-12-12M	2.00	1.00	1.25	50	1.392	.75	9.0	.90	1.12	MKM 5559	M8 x 35	214	1.0
		1644-12-12M							M8x1.25			-----	-----	---	
25	1	1643-16-16M	2.50	1.25	1.50	62	1.726	.94	11.0	1.00	1.38	MKM 503	M10 x 40	219	1.5
		1644-16-16M							M10x1.5			-----	-----	---	
32	1 1/4	1643-20-20M	3.00	1.50	1.75	73	2.032	1.25	13.5	1.20	1.75	MKM 1502	M12 x 50	222	2.5
		1644-20-20M							M12x1.75			-----	-----	---	
38	1 1/2	1643-24-24M	3.50	1.75	2.00	85	2.366	1.50	17.5	1.44	2.00	MKM 515	M16 x 60	225	4.0
		1644-24-24M							M16x2			-----	-----	---	
51	2	1643-32-32M	4.00	2.00	2.25	98	2.728	1.94	17.5	1.60	2.50	MKM 5560	M16 x 65	331	5.7
		1644-32-32M							M16x2			-----	-----	---	
56	2 1/2	1643-40-40M	4.75	2.38	2.75	118	3.285	2.32	22.0	1.98	3.00	MKM 5538	M20 x 80	335	9.5
		1644-40-40M							M20x2.5			-----	-----	---	
63	3	1643-48-48M	6.00	3.00	3.00	145	4.037	2.62	26.0	2.12	3.50	MKM 5561	M24 x 90	337	17.2
		1644-48-48M							M24x3			-----	-----	---	
70	3 1/2	1643-56-56M	6.50	3.25	3.50	160	4.454	2.73	26.0	2.46	4.00	MKM 5562	M24 x 100	340	25.0
		1644-56-56M							M24x3			-----	-----	---	
80	4	1643-64-64M	7.00	3.50	4.00	175	4.872	3.15	33.0	2.85	4.50	MKM 5563	M30 x 120	341	31.5
		1644-64-64M							M30x3.5			-----	-----	---	

① Order Separately

⑥ Other Pipe and Tube Sizes are Available

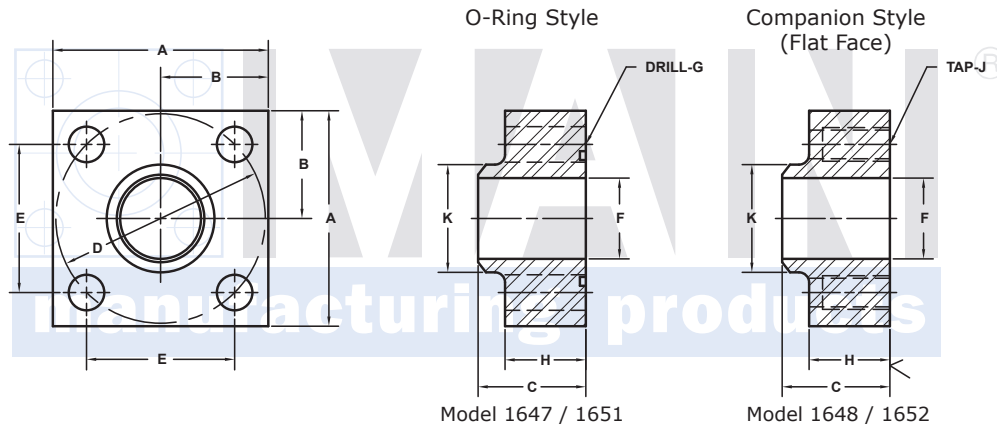
NOTE: Dimensions are in Inches Unless Otherwise Noted.

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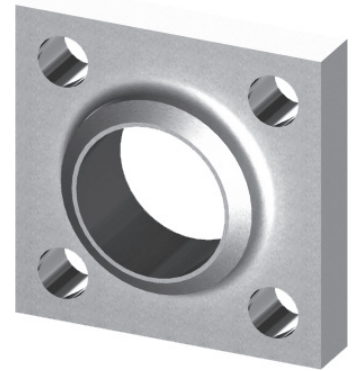
BUTT WELD IN-LINE FLANGES

For Schedule 160 Pipe ⑥

ISO 6164 BOLT PATTERN										250 BAR SERIES						WT
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Dmm	E	F	Gmm	H	K	MOUNTING KIT®				
									Jmm			PART NO.	SCREW SIZE	O-RING		
13	1½	1647-08-08M	PLEASE USE THE 400 BAR SERIES FOUND BELOW. THE BLOCK SIZE, BOLT PATTERN AND THE O-RING ARE IDENTICAL IN FLANGE SIZES 13 - 38. IF YOU HAVE ANY QUESTIONS PLEASE CALL ENGINEERING AT 1-800-521-7918.													
		1648-08-08M														
19	¾	1647-12-12M														
		1648-12-12M														
25	1	1647-16-16M														
		1648-16-16M														
32	1¼	1647-20-20M														
		1648-20-20M														
38	1½	1647-24-24M														
		1648-24-24M														
51	2	1647-32-32M	4.00	2.00	2.25	98	2.728	1.69	17.5	1.60	2.50	MKM 3531	M16 x 65	228	6.0	
		M16x2							-----			-----	---			
56	2½	1647-40-40M	4.75	2.38	2.50	118	3.285	2.12	22.0	1.88	3.00	MKM 5573	M20 x 80	232	9.4	
		M20x2.5							-----			-----	---			
63	3	1647-48-48M	5.50	2.75	3.00	145	4.037	2.62	22.0	2.28	3.50	MKM 5558	M20 x 90	237	15.7	
		M20x2.5							-----			-----	---			



MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

ISO 6164 BOLT PATTERN										400 BAR SERIES					
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Dmm	E	F	Gmm	H	K	MOUNTING KIT®			WT
									Jmm			PART NO.	SCREW SIZE	O-RING	
13	1/2	1651-08-08M	1.75	.88	1.12	42	1.170	.47	9.0	.81	.88	MKM 512	M8 x 35	210	.7
		M8x1.25							-----			-----	---		
19	3/4	1651-12-12M	2.00	1.00	1.25	50	1.392	.61	9.0	.90	1.12	MKM 5559	M8 x 35	214	1.0
		M8x1.25							-----			-----	---		
25	1	1651-16-16M	2.50	1.25	1.50	62	1.726	.81	11.0	1.00	1.38	MKM 503	M10 x 40	219	1.7
		M10x1.5							-----			-----	---		
32	1 1/4	1651-20-20M	3.00	1.50	1.75	73	2.032	1.16	13.5	1.20	1.75	MKM 1502	M12 x 50	222	2.7
		M12x1.75							-----			-----	---		
38	1 1/2	1651-24-24M	3.50	1.75	2.00	85	2.366	1.34	17.5	1.44	2.00	MKM 515	M16 x 60	225	4.2
		M16x2							-----			-----	---		
51	2	1651-32-32M	4.00	2.00	2.25	98	2.728	1.69	17.5	1.60	2.50	MKM 5560	M16 x 65	331	6.1
		M16x2							-----			-----	---		
56	2 1/2	1651-40-40M	4.75	2.38	2.75	118	3.285	2.12	22.0	1.98	3.00	MKM 5538	M20 x 80	335	10.1
		M20x2.5							-----			-----	---		
63	3	1651-48-48M	6.00	3.00	3.00	145	4.037	2.62	26.0	2.12	3.50	MKM 5561	M24 x 90	337	17.5
		M24x3							-----			-----	---		
70	3 1/2	1651-56-56M	6.50	3.25	3.50	160	4.454	2.73	26.0	2.46	4.00	MKM 5562	M24 x 100	340	25.0
		M24x3							-----			-----	---		
80	4	1651-64-64M	7.00	3.50	4.00	175	4.872	3.15	33.0	2.85	4.50	MKM 5563	M30 x 120	341	31.5
		M30x3.5							-----			-----	---		

① Order Separately

⑥ Other Pipe and Tube Sizes are Available

NOTE: Dimensions are in Inches Unless Otherwise Noted.

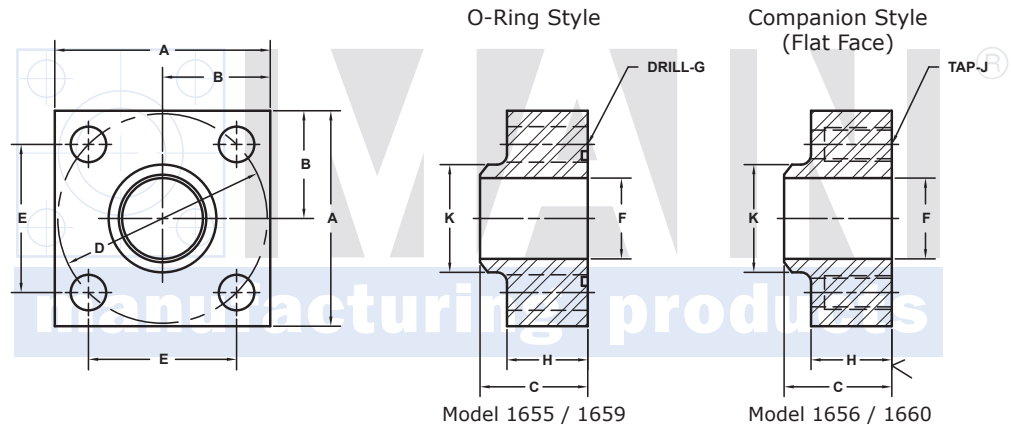
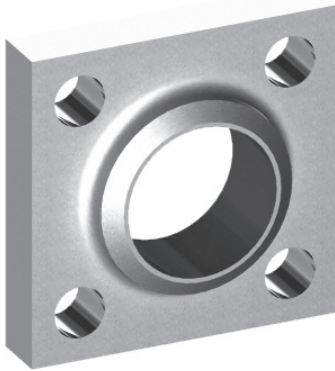
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BUTT WELD IN-LINE FLANGES

For Schedule XXS Pipe ⑥

ISO 6164 BOLT PATTERN										250 BAR SERIES							WT
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Dmm	E	F	Gmm	H	K	MOUNTING KIT①					
									Jmm			PART NO.	SCREW SIZE	O-RING			
13	1½	1655-08-08M	PLEASE USE THE 400 BAR SERIES FOUND BELOW. THE BLOCK SIZE, BOLT PATTERN AND THE O-RING ARE IDENTICAL IN FLANGE SIZES 13 - 38. IF YOU HAVE ANY QUESTIONS PLEASE CALL ENGINEERING AT 1-800-521-7918.														
		1656-08-08M															
19	¾	1655-12-12M															
		1656-12-12M															
25	1	1655-16-16M															
		1656-16-16M															
32	1¼	1655-20-20M															
		1656-20-20M															
38	1½	1655-24-24M															
		1656-24-24M															
51	2	1655-32-32M	4.00	2.00	2.25	98	2.728	1.50	17.5	1.60	2.50	MKM 3531	M16 x 65	228	6.3		
		M16x2							-----			-----	---				
56	2½	1655-40-40M	4.75	2.38	2.50	118	3.285	1.77	22.0	1.88	3.00	MKM 5573	M20 x 80	232	10.0		
		M20x2.5							-----			-----	---				
63	3	1655-48-48M	5.50	2.75	3.00	145	4.037	2.30	22.0	2.28	3.50	MKM 5558	M20 x 90	237	16.5		
		M20x2.5							-----			-----	---				

MATERIAL:
Low Carbon Steel



3181 TRI-PARK DR. GRAND BLANC, MI 48439 800-521-7918 810-953-1380 FAX 810-953-1385 INFO@MAINMFG.COM

ISO 6164 BOLT PATTERN										400 BAR SERIES						
FLANGE SIZE	PIPE SIZE	PART NUMBER	A	B	C	Dmm	E	F	Gmm	H	K	MOUNTING KIT①			WT	
									Jmm			PART NO.	SCREW SIZE	O-RING		
13	1½	1659-08-08M	1.75	.88	1.25	42	1.170	.25	9.0	.81	.88	MKM 512	M8 x 35	210	.8	
		M8x1.25							-----			-----	---			
19	¾	1659-12-12M	2.00	1.00	1.38	50	1.392	.44	9.0	.90	1.12	MKM 5559	M8 x 35	214	1.1	
		M8x1.25							-----			-----	---			
25	1	1659-16-16M	2.50	1.25	1.50	62	1.726	.60	11.0	1.00	1.38	MKM 503	M10 x 40	219	1.8	
		M10x1.5							-----			-----	---			
32	1¼	1659-20-20M	3.00	1.50	1.75	73	2.032	.89	13.5	1.20	1.75	MKM 1502	M12 x 50	222	2.8	
		M12x1.75							-----			-----	---			
38	1½	1659-24-24M	3.50	1.75	2.00	85	2.366	1.10	17.5	1.44	2.00	MKM 515	M16 x 60	225	4.4	
		M16x2							-----			-----	---			
51	2	1659-32-32M	4.00	2.00	2.25	98	2.728	1.50	17.5	1.60	2.50	MKM 5560	M16 x 65	331	6.3	
		M16x2							-----			-----	---			
56	2½	1659-40-40M	4.75	2.38	2.75	118	3.285	1.77	22.0	1.98	3.00	MKM 5538	M20 x 80	335	10.8	
		M20x2.5							-----			-----	---			
63	3	1659-48-48M	6.00	3.00	3.00	145	4.037	2.30	26.0	2.12	3.50	MKM 5561	M24 x 90	337	18.3	
		M24x3							-----			-----	---			
70	3½	1659-56-56M	6.50	3.25	3.50	160	4.454	2.73	26.0	2.46	4.00	MKM 5562	M24 x 100	340	25.0	
		M24x3							-----			-----	---			
80	4	1659-64-64M	7.00	3.50	4.00	175	4.872	3.15	33.0	2.85	4.50	MKM 5563	M30 x 120	341	31.5	
		M30x3.5							-----			-----	---			

① Order Separately

⑥ Other Pipe and Tube Sizes are Available

QUICK REFERENCE GUIDE

**This guide and a toll-free call to
1-800-521-7918
can give you the flange
you need when you need it!**

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MAIN Manufacturing manufactures its cataloged parts to its exacting quality standards as well as National and International standards. We are always ready to quickly quote and manufacture flanges to your requirements/drawings, however these may be considered special.

To aid in conversation, **MAIN's** "*Quick Reference Guide*" is useful, with the drawing number and parameters, our engineers can quote the exact flange. Because we have the skill, knowledge, experience, materials, and tools, you can be assured of receiving a flange manufactured to **MAIN Manufacturing's** highest quality standards.

Many “special” flanges turn out to be simply non cataloged semi standard flanges that could be in stock. If not, **MAIN** Manufacturing is ready and able to solve your flange problems quickly and competitively.

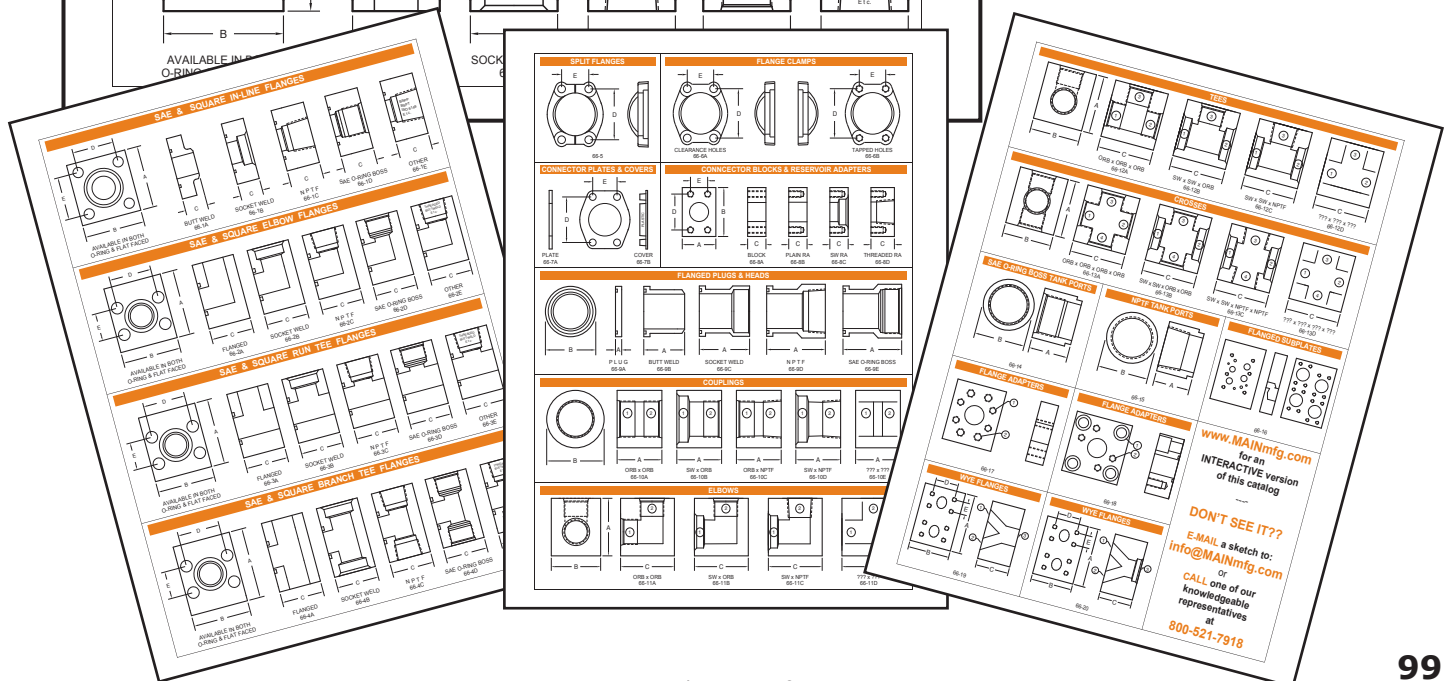
We are ready and able to solve any of your flange problems no matter how unique. Call today.

To expedite your special flange, the following information is important:

- Pad (pattern and screw size)**
- Flange Type (O-Ring or Flat Face)**
- Connection (type and size)**
- Geometry (In-line, Elbow, Tee, etc.)**
- Material**
- Extra's**

To expedite your special flange, the following information is important:

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- Flange Type (O-Ring or Flat Face)**
- Connection (type and size)**
- Geometry (In-line, Elbow, Tee, etc.)**
- Material**
- Extra's**



MOUNTING KITS (must be ordered separately)

To allow our customers to have a choice, **MAIN** Manufacturing offers eight standard choices of mounting kits. The mounting kits shown in the catalog generally include: 4 socket head screws, 4 hi-collar lock washers, and 1 Buna-N O-Ring. Simply changing the third digit from the right to either 6, 7, or 8 will indicate a different kit.

MK **5****, MK **15****, MK **25****, MK **35**** series: Socket head screws, lock washers, & Buna-N O-Ring

MK **6****, MK **16****, MK **26****, MK **36**** series: Socket head screws, lock washers, & Viton O-Ring

MK **7****, MK **17****, MK **27****, MK **37**** series: Hex head screws, lock washers, & Buna-N O-Ring

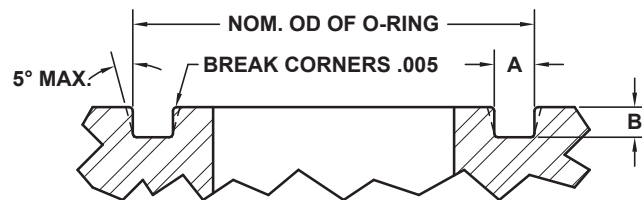
MK **8****, MK **18****, MK **28****, MK **38**** series: Hex head screws, lock washers, & Viton O-Ring

To specify stainless screws, add an SS at the end of the kit number (MK 533**SS**). **Please note that using stainless steel screws may reduce the pressure rating of the assembly.**

MAIN STANDARD O-RING GROOVE

The O-Ring groove dimensions vary between standards and suggestions from O-Ring manufacturers. As a consequence, **MAIN** has developed the groove below:

O-Ring	A	B
100 series	.124/.134	.075/.085
200 series	.155/.187	.105/.115
300 series	.248/.270	.155/.170
G	.161/.171	.093/.096



GROOVE SURFACE FINISH $\sqrt{125}$

The O-Ring numbers in the catalog tables are Uniform O-Ring Dash Numbers. They are consistent between most manufacturers, commercial, and military standards. That number, the "durometer", and the material type (Buna-N, Viton, Nitrile, Silicone, etc.), are all that is necessary to order the O-Ring. The "durometer", or hardness, used in hydraulic flanges is specified as 90 although 70 is sometimes used. The material is determined by the fluid and temperature being used and is best determined by the fluid supplier.

WELDING INFORMATION

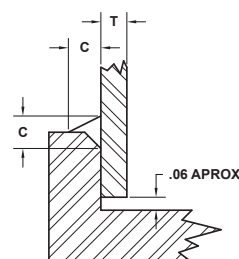
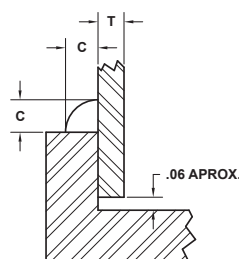
The following general information may need to be changed for specific applications. Consult with a welding specialist for specific applications.

When using ASTM A53 or A106 Grade B seamless pipe:

T = Nominal Wall Thickness of the pipe

C min = 1.25 T but not less than .16" (4mm)

Use low hydrogen electrode AWS E7018 series



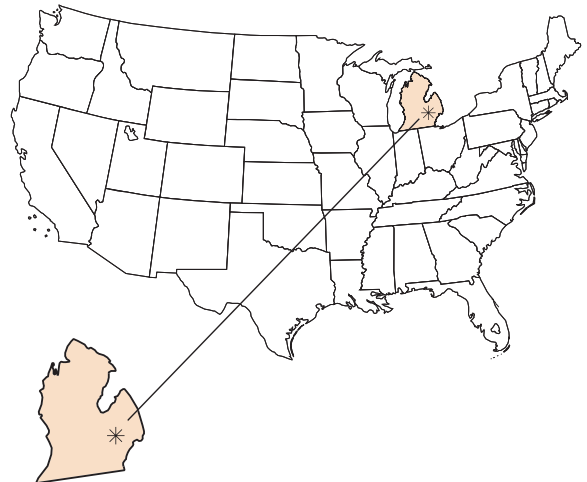
MAIN APPRECIATES OUR CUSTOMERS

MAIN Manufacturing Products, Inc. would like to thank all of our partners (customers, vendors and employees) who helped us become a premier supplier of hydraulic flanges and couplings for over 55 years. **MAIN** currently has over 1,200 active customers. We appreciate and thank their reliance on **MAIN's** quality, price and delivery to enhance their operations. We would also like to thank our vendors who help us provide delivery and the quality that our customers demand. A great amount of our success is due to our employees' desire for doing the right job, correctly. Their understanding that quality, safety and working efficiently are necessary attributes to success are noted and appreciated.

THANK YOU!

VISIT MAIN'S PRODUCTION FACILITY IN MICHIGAN

MAIN Manufacturing Products, Inc. encourages visits to our Michigan facility where we produce most of the products we sell. Our continuous improvement philosophy means that significant changes have been made over the last few years. We welcome your visit.



GRAND BLANC, MICHIGAN



WORLDWIDE

MAIN Manufacturing Products, Inc.

works closely with distributors and users of hydraulic flanges and components **WORLDWIDE** from our sole manufacturing facility in Grand Blanc, Michigan USA. Inquiries are promptly handled.

Call 800-521-7918 or 810-953-1380; **Fax 810-953-1385**; **e-mail info@MAINmfg.com**; and visit us at our **web site MAINmfg.com**.



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MAIN MANUFACTURING PRODUCTS, INC. directs all of its knowledge and energy to the design, development, manufacturing, and distribution of quality flanges and components for the fluid power industry.

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