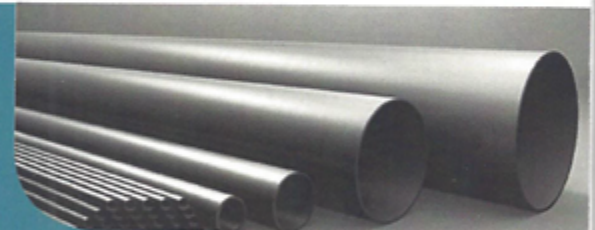




# DYLAN

Dylan Al-Zahrah Trading Co. LTD.

شركة ديلان الزهرة للتجارة المحدودة



## DYLAN AL-ZAHRAH

### Trading Company LTD.

Company Profile



**DYLAN**

Dylan Al-Zahrah Trading Co. LTD.

شركة ديلان الزهرة للتجارة المحدودة





## ABOUT US

We cater to the requirements of various industries such as Refineries, Petrochemicals, Oil and Gas, Plants, Fertilizers, Power, Cement Companies, Engineering Industries, Construction etc.

We are well established in the business and we can meet the requirements of our clients in quantity/ quality material as well as special items. We have excellent relations with both indigenous as well as overseas companies.

Our achievements have been pasteurized by meeting our commitments and maintaining the highest standards of quality for our valued clientele of Oil and Gas, Power water projects, Private, Public, Government, Electro Mechanic works.

We supply and import Pipes, Fittings, and Valves, from Miscellaneous made in USA, Europe, Korea, China, Japan, Thailand, and India & Far East.

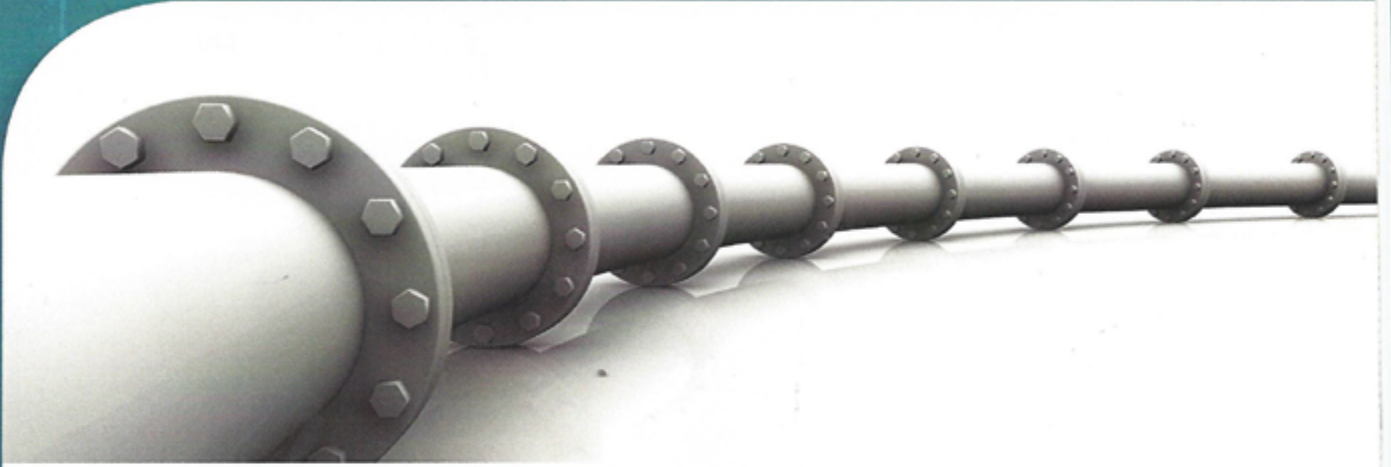


## VISION

To be a reliable service provider for mega project contractors in the Kingdom of Saudi Arabia (KSA)


## MISSION

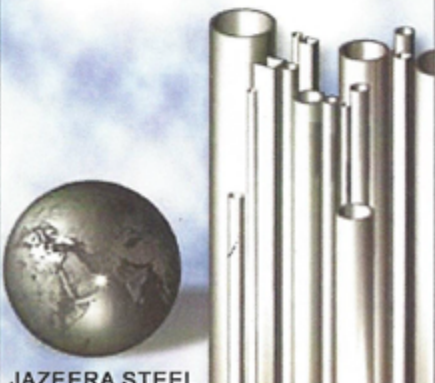
- To be specialized in the oil and gas industries
- To have the largest range of pipes and fittings
- To be specialized in non-standard pipes and fittings
- To work as partner with our clients and customers
- To have best technical support for our clients
- Provide defect-free products and services through constant improvement
- Continue to develop a committed and skilled workforce
- Be flexible and innovative in our operations
- To provide safety environment for our employees
- Maintain a strict clean environment policy



# DYLAN PRODUCTS

SSP  
الأنايب  
ALANABEEB

  
Jazeera Steel الجزيرة الحديدية

  
JAZEERA STEEL





**DYLAN PRODUCTS**

**GROOVED COUPLING & FITTINGS**

WELLFIT FITTINGS INC. USA

Materials Magic

HITACHI

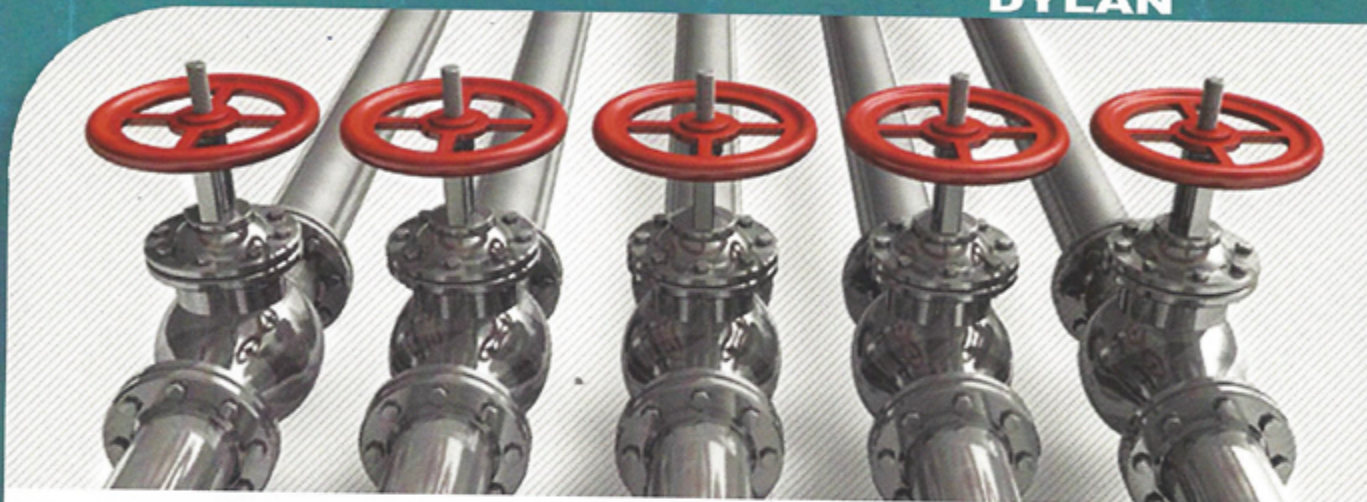
**GOURD BRAND MALLEABLE IRON PIPE FITTINGS**

**BENKAN**

**BOTH-WELL HIGH PRESSURE FITTINGS**

FORGED CARBON ALLOY STAINLESS STEEL THREADED SOCKETWELD







**BOTH-WELL STEEL FITTINGS CO., LTD.**  
 NO.303 JEN-KUO ROAD, JEN-WU DISTRICT,  
 KACHHSANG CITY TAINAN, R.O.C. 71803  
 TEL: 886-7-271-9120 • 271-6997  
 FAX: 886-7-271-8864 • 271-6997



## DYLAN PRODUCTS

**KOFCO**

• ANSI • API • MSS • AWWA

 CLASS 150	 WELD END	 SOCKET WELD
 WELDED	 LAP JOINT	 B&D

WATER  
HEATING  
VENTILATION  
AIR CON  
COND

ISSUE 2

FUTURE VALVE TECHNOLOGY

**Technical  
Product  
Guide**

Reducing Valves  
New  
Traditional Valves  
Public Health Design

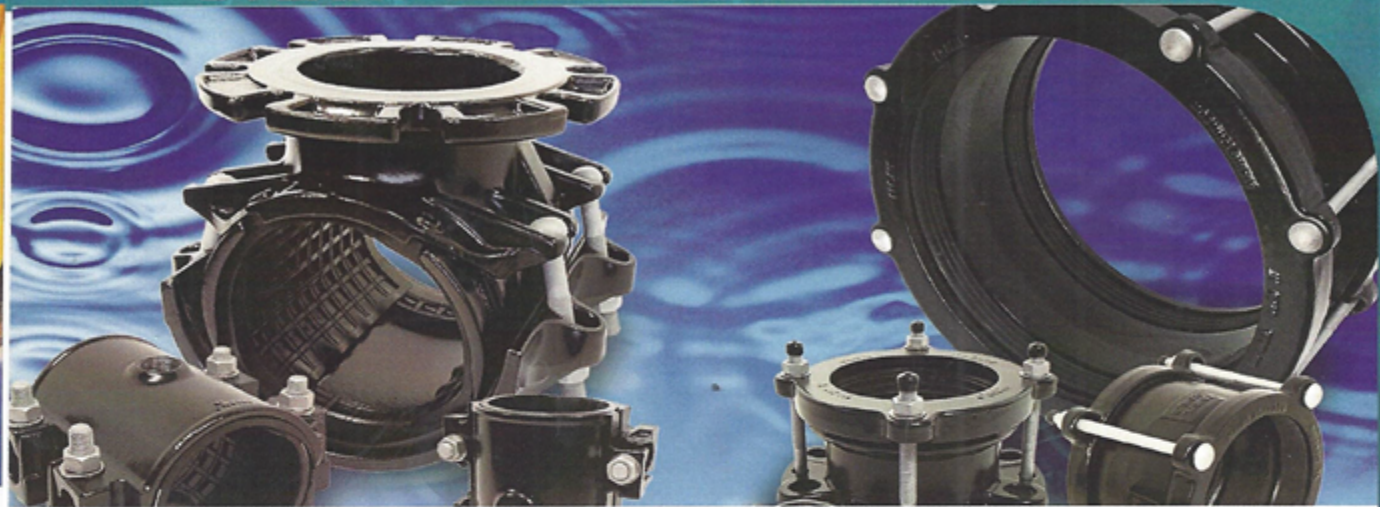
**Hattersley**



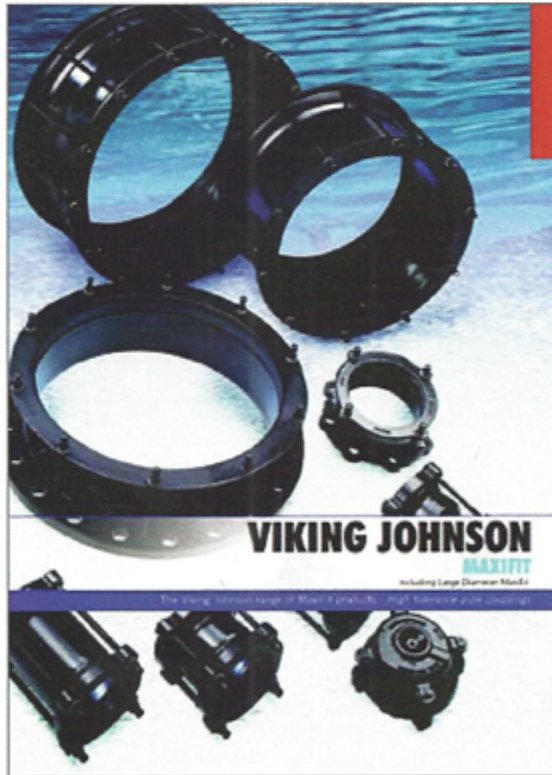
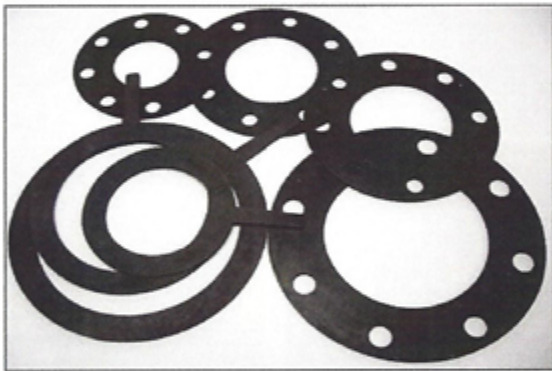
**NISCO VALVES**

**PEGLER**  
A WATERTIGHT GUARANTEE OR QUALITY





## DYLAN PRODUCTS







**DYLAN**

**New Generation!**

The Press-fitting  
without tools

**MECHFit**

"MECH Fit" is  
the new name for "ixPress"

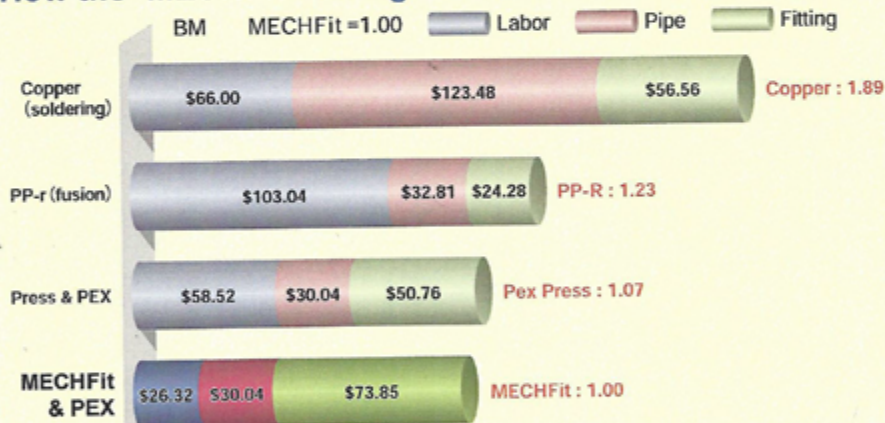
Patented



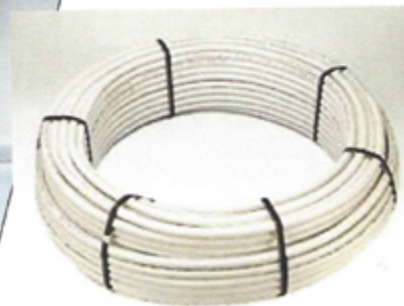
CLAMP RING  
METHOD pat.

**Less Labor and thus improve  
productivity with cost savings**

**How the "MECHFit" Fitting Works? (Total Cost Comparison)**



Labor cost : \$20-per a person / DAY (include administration cost)



**Polyethylene PEX-Pipes  
Multi layer**



**Polyethylene PEX-Pipes  
Single Layer**



## DIMENSION OF WELDED AND SEAMLESS PIPE

Dimension in Inches

NOMINAL PIPE SIZE	OUTSIDE DIAMETER		NOMINAL WALL THICKNESS																	NOMINAL PIPE SIZE				
			ANSI B 31.19				ANSI B 31.10																	
			SCH 40S	SCH 10S	SCH 20S	STD	SCH 40	SCH 60	XX	SCH 80	SCH 100	SCH 120	SCH 140	SCH 160	XX									
1/8	0.405	0.413	--	0.048	0.048	0.048	--	--	--	0.065	0.065	--	0.095	0.095	--	--	--	--	--	1/8				
1/4	0.540	0.543	--	0.068	0.068	0.119	--	--	--	0.088	0.088	--	0.119	0.119	--	--	--	--	--	1/4				
3/8	0.875	0.881	--	0.085	0.091	0.126	--	--	--	0.091	0.091	--	0.147	0.147	--	--	--	--	0.155	0.284	3/8			
1/2	1.315	1.329	0.065	0.093	0.109	0.147	--	--	--	0.109	0.109	--	0.147	0.147	--	--	--	--	0.219	0.308	1/2			
3/4	1.915	1.921	0.065	0.093	0.113	0.184	--	--	--	0.113	0.113	--	0.179	0.179	--	--	--	--	0.250	0.358	3/4			
1	2.375	2.382	0.065	0.109	0.133	0.179	--	--	--	0.133	0.133	--	0.179	0.179	--	--	--	--	0.280	0.382	1			
1 1/4	3.500	3.508	0.065	0.120	0.203	0.276	--	--	--	0.145	0.145	--	0.219	0.219	--	--	--	--	0.344	0.436	1 1/4			
1 1/2	4.500	4.500	0.065	0.120	0.216	0.300	--	--	--	0.154	0.154	--	0.219	0.219	--	--	--	--	0.375	0.552	1 1/2			
2	6.625	6.634	0.109	0.134	0.228	0.312	--	--	--	0.203	0.203	--	0.300	0.300	--	--	--	--	0.433	0.600	2			
2 1/2	8.625	8.634	0.109	0.134	0.237	0.337	--	--	--	0.228	0.228	--	0.319	0.319	--	--	--	--	0.531	0.674	2 1/2			
3	10.750	10.820	0.134	0.165	0.265	0.375	--	--	--	0.265	0.265	--	0.375	0.375	--	--	--	0.500	0.625	3				
3 1/2	12.750	12.830	0.166	0.193	0.300	0.432	--	--	--	0.300	0.300	--	0.432	0.432	--	--	--	0.562	0.719	3 1/2				
4	14.000	14.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.277	0.322	0.332	0.408	0.500	0.500	0.594	0.710	0.812	0.908	0.975	4		
4 1/2	16.000	16.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.307	0.368	0.368	0.500	0.500	0.594	0.710	0.844	1.000	1.125	1.200	1.250	4 1/2	
5	18.000	18.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	5
6	20.000	20.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	6
8	24.000	24.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	8
10	28.000	28.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	10
12	32.000	32.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	12
14	36.000	36.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	14
16	40.000	40.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	16
18	44.000	44.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	18
20	48.000	48.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	20
22	52.000	52.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	22
24	56.000	56.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	24
26	60.000	60.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	26
28	64.000	64.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	28
30	68.000	68.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	30
32	72.000	72.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	32
34	76.000	76.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	34
36	80.000	80.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	36
38	84.000	84.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	38
40	88.000	88.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	40
42	92.000	92.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	42
44	96.000	96.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	44
46	100.000	100.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	46
48	104.000	104.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	48
50	108.000	108.000	0.166	0.193	0.300	0.432	--	--	--	0.289	0.312	0.378	0.378	0.500	0.500	0.594	0.710	0.836	1.031	1.219	1.438	1.512	1.600	50

Dimension in Millimeters

NOMINAL PIPE SIZE	OUTSIDE DIAMETER		NOMINAL WALL THICKNESS																	NOMINAL PIPE SIZE				
			ANSI B 31.19				ANSI B 31.10																	
			SCH 40S	SCH 10S	SCH 20S	STD	SCH 40	SCH 60	XX	SCH 80	SCH 100	SCH 120	SCH 140	SCH 160	XX									
1/8	10.3	10.5	--	1.2	1.7	2.4	--	--	--	1.7	1.7	--	2.4	2.4	--	--	--	--	--	--	--	--	1/8	
1/4	13.7	13.8	--	1.7	2.2	3.0	--	--	--	2.2	2.2	--	3.0	3.0	--	--	--	--	--	--	--	--	1/4	
3/8	17.2	17.3	--	1.7	2.3	3.2	--	--	--	2.3	2.3	--	3.2	3.2	--	--	--	--	4.8	7.6	7.6	7.6	7.6	3/8
1/2	21.3	21.7	1.7	2.1	2.8	3.7	--	--	--	2.8	2.8	--	3.7	3.7	--	--	--	--	5.6	7.6	7.6	7.6	7.6	1/2
3/4	26.7	27.2	1.7	2.1	2.9	3.9	--	--	--	2.9	2.9	--	3.9	3.9	--	--	--	--	6.4	9.1	9.1	9.1	9.1	3/4
1	33.4	34.0	1.7	2.0	3.4	4.5	--	--	--	3.4	3.4	--	4.5	4.5	--	--	--	--	6.4	9.7	9.7	9.7	9.7	1
1 1/4	42.7	42.7	1.7	2.0	3.8	4.9	--	--	--	3.8	3.8	--	4.9	4.9	--	--	--	--	7.1	10.2	10.2	10.2	10.2	1 1/4
1 1/2	48.3	48.6	1.7	2.0	3.7	5.1	--	--	--	3.7	3.7	--	5.1	5.1	--	--	--	--	8.7	11.1	11.1	11.1	11.1	1 1/2
2	60.3	60.6	1.7	2.0	3.9	5.5	--	--	--	3.9	3.9	--	5.5	5.5	--	--	--	--	9.6	14.0	14.0	14.0	14.0	2
2 1/2	73.0	73.3	2.1	3.0	5.2	7.0	--	--	--	5.2	5.2	--	7.0	7.0	--	--	--	--	11.1	15.2	15.2	15.2	15.2	2 1/2
3	88.9	89.1	2.1	3.0	5.5	7.6	--	--	--	5.5	5.5	--	7.6	7.6	--	--	--	--	11.1	15.2	15.2	15.2	15.2	3
3 1/2	101.6	101.6	2.1	3.0	5.7	8.1	--	--	--	5.7	5.7	--	8.1	8.1	--	--	--	--	11.1	15.2	15.2	15.2	15.2	3 1/2
4	114.3	114.3	2.1	3.0	6.0	8.6	--	--	--	6.0	6.0	--	8.6	8.6	--	--	--	12.7	15.9	19.0	19.0	19.0	19.0	4
4 1/2	127.0	127.0	2.1	3.0	6.3	9.1	--	--	--	6.3	6.3	--	9.1	9.1	--	--	--	12.7	15.9	19.0	19.0	19.0	19.0	4 1/2
5	140.0	140.0	2.1	3.0	6.6	9.6	--	--	--	6.6	6.6	--	9.6	9.6	--	--	--	12.7	15.9	19.0	19.0	19.0	19.0	5
6	152.4	152.4	2.1	3.0	6.9	10.1	--	--	--	6.9	6.9	--	10.1	10.1	--	--	--	12.7	15.9	19.0	19.0	19.0	19.0	6
8	182.9	182.9	2.1	3.0	7.1	11.0	--	--	--	7.1	7.1	--	11.0	11.0	--	--	--	12.7	15.9	19.0	19.0	19.0	19.0	8
10	213.4	213.4	2.1	3.0	7.3	11.9	--	--	--	7.3	7.3	--	11.9	11.9	--	--	--	12.7	15.9	19.0	19.0	19.0	19.0	10
12	243.9	243.9	2.1																					

### Flange Tables Nominal Size 15mm (1/2 in)

BS EN 1092	Diameter of flange	Bolt circle diameter	Number of bolts	Diameter of bolts	Diameter of raised face (D)	Diameter of raised face (D)	Height of raised face (H)	Thickness of flange		Dish	
								Grey cast iron	Copper alloy		
PN 6	80	55	4	M10	11	38	40	2	12 (1)	12	
PN 10	95	65	4	M12	14	46	45	2	14 (1)	16	
PN 16	95	65	4	M12	14	46	45	2	14 (1)	6 (1) 16	
PN 25	95	65	4	M12	14	46	45	2	14 (1)	8 (2) 16	
PN 40	95	65	4	M12	14	46	45	2	9 (2)	16	
PN 64	105	75	4	M12	14	46	45	2	9 (2)	20	
ANSI											
Class 150/150	31/2 (80)	21/2 (54)	4	1/2 (13)	5/8 (16)	-	11/8 (28)	1/16 (2)	-	5/16 (8)	1/16 (1)
Class 300	31/2 (80)	21/2 (54)	4	5/8 (16)	5/8 (16)	-	11/8 (28)	1/16 (2)	-	1/2 (12)	5/8 (16)
Class 600	31/2 (80)	21/2 (54)	4	1/2 (13)	5/8 (16)	-	11/8 (28)	1/16 (2)	-	5/16 (8)	-
Class 900	41/4 (112)	31/4 (80)	4	5/8 (16)	5/8 (21)	-	11/8 (28)	1/16 (2)	-	1/2 (12)	-
Class 1500	41/4 (112)	31/4 (80)	4	3/4 (19)	5/8 (21)	-	11/8 (28)	1/16 (2)	-	1/2 (12)	-

### Flange Tables Nominal Size 25mm (1 in)

BS EN 1092	Diameter of flange	Bolt circle diameter	Number of bolts	Diameter of bolts	Diameter of raised face (D)	Diameter of raised face (D)	Height of raised face (H)	Thickness of flange		Dish	
								Grey cast iron	Copper alloy		
PN 6	100	75	4	M10	11	58	40	3	2	14 (1)	
PN 10	115	85	4	M12	14	65	48	3	2	14 (1)	
PN 16	115	85	4	M12	14	65	48	3	2	14 (1) 8 (2)	
PN 25	115	85	4	M12	14	65	48	3	2	18 (1) 9 (2)	
PN 40	115	85	4	M12	14	65	48	3	2	11 (1) 18	
PN 64	140	100	4	M16	18	68	48	2	-	24	
PN 100	140	100	4	M16	18	68	48	2	-	24	
ANSI											
Class 150/150	41/4 (112)	31/4 (80)	4	1/2 (13)	5/8 (16)	-	2 (25)	-	5/16 (8)	5/16 (8)	3/16 (1/2) 5/16 (1/4)
Class 300	41/4 (112)	31/4 (80)	4	5/8 (16)	5/8 (16)	-	2 (25)	-	5/16 (8)	5/16 (15) 5/16 (12)	-
Class 600	41/4 (112)	31/4 (80)	4	1/2 (13)	5/8 (16)	-	2 (25)	-	5/16 (8)	-	5/16 (12)
Class 900	51/4 (136)	4 (102)	4	3/4 (21)	5/8 (21)	-	2 (25)	-	5/16 (8)	-	11/8 (25)

### Flange Tables Nominal Size 20mm (3/4 in)

BS EN 1092	Diameter of flange	Bolt circle diameter	Number of bolts	Diameter of bolts	Diameter of raised face (D)	Diameter of raised face (D)	Height of raised face (H)	Thickness of flange		Dish	
								Grey cast iron	Copper alloy		
PN 6	80	65	4	M10	11	48	50	2	14 (1)	14	
PN 10	105	75	4	M12	14	54	58	2	16 (1)	18	
PN 16	105	75	4	M12	14	54	58	2	16 (1)	6 (2) 18	
PN 25	105	75	4	M12	14	54	58	2	18 (1)	8 (2) 18	
PN 40	105	75	4	M12	14	54	58	2	9 (2)	18	
PN 64	130	90	4	M16	18	60	58	2	-	22	
PN 100	130	90	4	M16	18	60	58	2	-	22	
ANSI											
Class 150/150	31/4 (80)	21/4 (54)	4	1/2 (13)	5/8 (16)	-	11/16 (14)	1/16 (1)	-	5/16 (8)	1/16 (1/4)
Class 300	41/4 (112)	31/4 (80)	4	5/8 (16)	5/8 (16)	-	11/16 (14)	1/16 (1)	-	1/2 (12)	5/8 (16)
Class 600	41/4 (112)	31/4 (80)	4	1/2 (13)	5/8 (16)	-	11/16 (14)	1/16 (1)	-	5/16 (8)	-
Class 900	51/4 (136)	41/4 (108)	4	3/4 (19)	5/8 (21)	-	11/16 (14)	1/16 (1)	-	1 (25)	-
Class 1500	51/4 (136)	41/4 (108)	4	3/4 (19)	5/8 (21)	-	11/16 (14)	1/16 (1)	-	1 (25)	-

### Flange Tables Nominal Size 32mm (1 1/4 in)

BS EN 1092	Diameter of flange	Bolt circle diameter	Number of bolts	Diameter of bolts	Diameter of raised face (D)	Diameter of raised face (D)	Height of raised face (H)	Thickness of flange		Dish	
								Grey cast iron	Copper alloy		
PN 6	120	90	4	M12	14	60	70	3	2	14 (1)	
PN 10	140	100	4	M16	18	76	78	3	2	18 (1)	
PN 16	140	100	4	M16	18	76	78	3	2	18 (1) 8 (2)	
PN 25	140	100	4	M16	18	76	78	3	2	28 (1) 9 (2)	
PN 40	140	100	4	M16	18	76	78	3	2	11 (1) 18	
PN 64	155	110	4	M20	22	80	78	2	-	24	
PN 100	155	110	4	M20	22	80	78	2	-	24	
ANSI											
Class 150/150	41/4 (112)	31/4 (80)	4	1/2 (13)	5/8 (16)	5/8 (16)	21/8 (26)	-	5/16 (8)	5/16 (15)	1/2 (12) 5/16 (1/4)
Class 300	51/4 (136)	41/4 (108)	4	5/8 (16)	5/8 (16)	21/8 (26)	21/8 (26)	-	5/16 (8)	5/16 (18)	-
Class 600	51/4 (136)	41/4 (108)	4	1/2 (13)	5/8 (16)	21/8 (26)	21/8 (26)	-	5/16 (8)	-	5/16 (21)
Class 900	61/4 (158)	41/4 (110)	4	3/4 (21)	5/8 (21)	21/8 (26)	21/8 (26)	-	5/16 (8)	-	11/8 (25)
Class 1500	61/4 (158)	41/4 (110)	4	3/4 (21)	5/8 (21)	21/8 (26)	21/8 (26)	-	5/16 (8)	-	11/8 (25)



### Flange Tables

#### Nominal Size 40mm (1 1/2in)

BS EN 1092	Diameter of flange	Bolt circle diameter	Number of bolts	Diameter of holes in flange	Diameter of raised part of flange	Diameter of raised part of flange	Height of raised part of flange	Thickness of Flange		
								Grey cast iron	Copper alloy	
PN 6	110	100	4	11.2	14	14	3	2	16 (1)	14
PN 10	110	110	4	11.6	19	18	3	2	18 (1)	18
PN 16	110	110	4	11.6	19	18	3	2	18 (1)	18
PN 25	110	110	4	11.6	19	18	3	2	20 (1)	18
PN 40	110	110	4	11.6	19	18	3	2	13 (2)	18
PN 64	110	105	4	10.0	22	22	2	2	2	28
PN 100	110	105	4	10.0	22	22	2	2	2	28

ANSI

Class	150/150	200	250	300	350	400	450	500	600	700	800	900	1000
Class 150/150	5 (12)	2 1/2 (63)	3 1/2 (91)	4 1/2 (113)	5 1/2 (140)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)
Class 200	6 1/2 (165)	4 1/2 (113)	5 1/2 (140)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)	14 1/2 (365)	15 1/2 (390)
Class 300	6 1/2 (165)	4 1/2 (113)	5 1/2 (140)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)	14 1/2 (365)	15 1/2 (390)
Class 400	6 1/2 (165)	4 1/2 (113)	5 1/2 (140)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)	14 1/2 (365)	15 1/2 (390)
Class 500	7 (178)	4 1/2 (113)	5 1/2 (140)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)	14 1/2 (365)	15 1/2 (390)

### Flange Tables

#### Nominal Size 50mm (2in)

BS EN 1092	Diameter of flange	Bolt circle diameter	Number of bolts	Diameter of holes in flange	Diameter of raised part of flange	Diameter of raised part of flange	Height of raised part of flange	Thickness of Flange		
								Grey cast iron	Copper alloy	
PN 6	140	130	4	11.2	14	14	3	2	16 (1)	14
PN 10	145	125	4	11.6	19	18	3	2	20 (1)	18
PN 16	145	125	4	11.6	19	18	3	2	20 (1)	18
PN 25	145	125	4	11.6	19	18	3	2	22 (1)	18
PN 40	145	125	4	11.6	19	18	3	2	13 (2)	20
PN 64	140	135	4	10.0	22	22	2	2	2	24
PN 100	145	135	4	10.0	26	26	2	2	2	28

ANSI

Class	150/150	200	250	300	350	400	450	500	600	700	800	900	1000
Class 150/150	4 (102)	4 1/2 (113)	5 1/2 (140)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)	14 1/2 (365)	15 1/2 (390)
Class 200	4 1/2 (113)	5 (127)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)	14 1/2 (365)	15 1/2 (390)	16 1/2 (415)
Class 300	4 1/2 (113)	5 (127)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)	14 1/2 (365)	15 1/2 (390)	16 1/2 (415)
Class 400	4 1/2 (113)	5 (127)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)	14 1/2 (365)	15 1/2 (390)	16 1/2 (415)
Class 500	4 1/2 (113)	5 (127)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)	14 1/2 (365)	15 1/2 (390)	16 1/2 (415)

### Flange Tables

#### Nominal Size 80mm (3in)

BS EN 1092	Diameter of flange	Bolt circle diameter	Number of bolts	Diameter of holes in flange	Diameter of raised part of flange	Diameter of raised part of flange	Height of raised part of flange	Thickness of Flange		
								Grey cast iron	Copper alloy	
PN 6	180	170	4	11.2	14	14	3	2	18 (1)	16
PN 10	200	180	8	11.6	19	18	3	2	22 (1)	20
PN 16	200	180	8	11.6	19	18	3	2	22 (1)	20
PN 25	200	180	8	11.6	19	18	3	2	24 (1)	24
PN 40	200	180	8	11.6	19	18	3	2	16 (2)	24
PN 64	215	170	8	10.0	22	22	2	2	2	28
PN 100	230	180	8	10.0	26	26	2	2	2	36

ANSI

Class	150/150	200	250	300	350	400	450	500	600	700	800	900	1000
Class 150/150	3 (76)	3 1/2 (91)	4 1/2 (113)	5 (127)	5 1/2 (140)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)
Class 200	3 1/2 (91)	4 (102)	5 1/2 (140)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)	14 1/2 (365)	15 1/2 (390)
Class 300	3 1/2 (91)	4 (102)	5 1/2 (140)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)	14 1/2 (365)	15 1/2 (390)
Class 400	3 1/2 (91)	4 (102)	5 1/2 (140)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)	14 1/2 (365)	15 1/2 (390)
Class 500	3 1/2 (91)	4 (102)	5 1/2 (140)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)	14 1/2 (365)	15 1/2 (390)



### Flange Tables

#### Nominal Size 65mm (2 1/2in)

BS EN 1092	Diameter of flange	Bolt circle diameter	Number of bolts	Diameter of holes in flange	Diameter of raised part of flange	Diameter of raised part of flange	Height of raised part of flange	Thickness of Flange		
								Grey cast iron	Copper alloy	
PN 6	160	150	4	11.2	14	14	3	2	16 (1)	14
PN 10	185	145	4 (7)	11.6	19	18	3	2	20 (1)	18
PN 16	185	145	4 (7)	11.6	19	18	3	2	20 (1)	18
PN 25	185	145	4	11.6	19	18	3	2	24 (1)	22
PN 40	185	145	4	11.6	19	18	3	2	14	22
PN 64	205	160	8	10.0	22	22	2	2	2	28
PN 100	230	170	8	10.0	26	26	2	2	2	34

ANSI

Class	150/150	200	250	300	350	400	450	500	600	700	800	900	1000
Class 150/150	3 (76)	3 1/2 (91)	4 1/2 (113)	5 (127)	5 1/2 (140)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)
Class 200	3 1/2 (91)	4 (102)	5 1/2 (140)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)	14 1/2 (365)	15 1/2 (390)
Class 300	3 1/2 (91)	4 (102)	5 1/2 (140)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)	14 1/2 (365)	15 1/2 (390)
Class 400	3 1/2 (91)	4 (102)	5 1/2 (140)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)	14 1/2 (365)	15 1/2 (390)
Class 500	3 1/2 (91)	4 (102)	5 1/2 (140)	6 1/2 (165)	7 1/2 (190)	8 1/2 (215)	9 1/2 (240)	10 1/2 (265)	11 1/2 (290)	12 1/2 (315)	13 1/2 (340)	14 1/2 (365)	15 1/2 (390)



### Flange Tables

#### Nominal Size 125mm (5in)

BS EN 1092	Diameter of flange	Bolt circle diameter	Number of bolts	Diameter of bolts	Diameter of holes of bolts	Diameter of raised face	Diameter of steel	Height of raised face	Thickness of flange				
									Grey cast iron	Copper alloy	Cast and ductile steel		
FR 6	240	260	8	M16	19	18	174	178	3	2	28 (1)	18	-
FR 10	250	210	8	M16	19	18	184	188	3	2	24 (1)	22	19
FR 14	250	210	8	M16	19	18	184	188	3	2	24 (1)	22	19
FR 25	270	220	8	M20	23	22	184	188	3	2	28 (1)	26	19
FR 40	270	220	8	M20	23	22	184	188	3	2	28 (1)	26	23.5
FR 64	295	240	8	M24	26	25	188	188	2	2	-	34	-
FR 100	315	250	8	M27	30	29	188	188	2	2	-	40	-

ANSI

Class 150	150 (6.0)	150 (6.0)	8	3/4 (19)	3/4 (22)	3/4 (22)	275 (10.8)	275 (10.8)	3	2	22 (1)	20 (0.8)	14
Class 300	150 (6.0)	150 (6.0)	8	3/4 (19)	3/4 (22)	3/4 (22)	275 (10.8)	275 (10.8)	3	2	22 (1)	20 (0.8)	14
Class 600	150 (6.0)	150 (6.0)	8	1 (25)	1 (25)	1 (25)	275 (10.8)	275 (10.8)	3	2	22 (1)	20 (0.8)	14
Class 900	150 (6.0)	150 (6.0)	8	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)	275 (10.8)	275 (10.8)	3	2	22 (1)	20 (0.8)	14
Class 1500	150 (6.0)	150 (6.0)	8	1 3/4 (41)	1 3/4 (41)	1 3/4 (41)	275 (10.8)	275 (10.8)	3	2	22 (1)	20 (0.8)	14



### Flange Tables

#### Nominal Size 200 mm (8 in)

BS EN 1092	Diameter of flange	Bolt circle diameter	Number of bolts	Diameter of bolts	Diameter of holes of bolts	Diameter of raised face	Diameter of steel	Height of raised face	Thickness of flange				
									Grey cast iron	Copper alloy	Cast and ductile steel		
FR 6	320	340	8	M16	19	18	214	218	3	2	22 (1)	20	-
FR 10	340	295	8	M20	23	22	246	248	3	2	26 (1)	24	20
FR 14	340	295	12	M20	23	22	246	248	3	2	26 (1)	24	20
FR 25	340	310	12	M24	26	26	274	278	3	2	34 (1)	30	32
FR 40	375	320	12	M27	31	30	284	285	3	2	-	34	30
FR 64	415	345	12	M33	36	36	305	305	2	2	-	42	-
FR 100	430	360	12	M33	36	36	305	305	2	2	-	53	-

ANSI

Class 150	200 (8.0)	200 (8.0)	8	3/4 (19)	3/4 (22)	3/4 (22)	180 (7.1)	180 (7.1)	3	2	22 (1)	20 (0.8)	14
Class 300	200 (8.0)	200 (8.0)	8	3/4 (19)	3/4 (22)	3/4 (22)	180 (7.1)	180 (7.1)	3	2	22 (1)	20 (0.8)	14
Class 600	200 (8.0)	200 (8.0)	12	1 (25)	1 (25)	1 (25)	180 (7.1)	180 (7.1)	3	2	22 (1)	20 (0.8)	14
Class 900	200 (8.0)	200 (8.0)	12	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)	180 (7.1)	180 (7.1)	3	2	22 (1)	20 (0.8)	14
Class 1500	200 (8.0)	200 (8.0)	12	1 3/4 (41)	1 3/4 (41)	1 3/4 (41)	180 (7.1)	180 (7.1)	3	2	22 (1)	20 (0.8)	14

### Flange Tables

#### Nominal Size 100mm (4in)

BS EN 1092	Diameter of flange	Bolt circle diameter	Number of bolts	Diameter of bolts	Diameter of holes of bolts	Diameter of raised face	Diameter of steel	Height of raised face	Thickness of flange				
									Grey cast iron	Copper alloy	Cast and ductile steel		
FR 6	210	170	4	M16	19	18	144	148	3	2	18 (1)	16	-
FR 10	220	180	8	M16	19	18	154	158	3	2	24 (1)	20	19
FR 14	220	180	8	M16	19	18	154	158	3	2	24 (1)	14 (0.6)	20
FR 25	235	190	8	M20	23	22	154	162	3	2	28 (1)	17 (0.7)	24
FR 40	235	190	8	M20	23	22	154	162	3	2	28 (1)	17 (0.7)	24
FR 64	250	200	8	M24	26	26	162	162	2	2	-	30	-
FR 100	265	210	8	M27	30	29	162	162	2	2	-	40	-

ANSI

Class 150	100 (4.0)	100 (4.0)	8	3/4 (19)	3/4 (22)	3/4 (22)	105 (4.1)	105 (4.1)	3	2	18 (0.7)	16 (0.6)	12
Class 300	100 (4.0)	100 (4.0)	8	3/4 (19)	3/4 (22)	3/4 (22)	105 (4.1)	105 (4.1)	3	2	18 (0.7)	16 (0.6)	12
Class 600	100 (4.0)	100 (4.0)	8	1 (25)	1 (25)	1 (25)	105 (4.1)	105 (4.1)	3	2	18 (0.7)	16 (0.6)	12
Class 900	100 (4.0)	100 (4.0)	8	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)	105 (4.1)	105 (4.1)	3	2	18 (0.7)	16 (0.6)	12
Class 1500	100 (4.0)	100 (4.0)	8	1 3/4 (41)	1 3/4 (41)	1 3/4 (41)	105 (4.1)	105 (4.1)	3	2	18 (0.7)	16 (0.6)	12

### Flange Tables

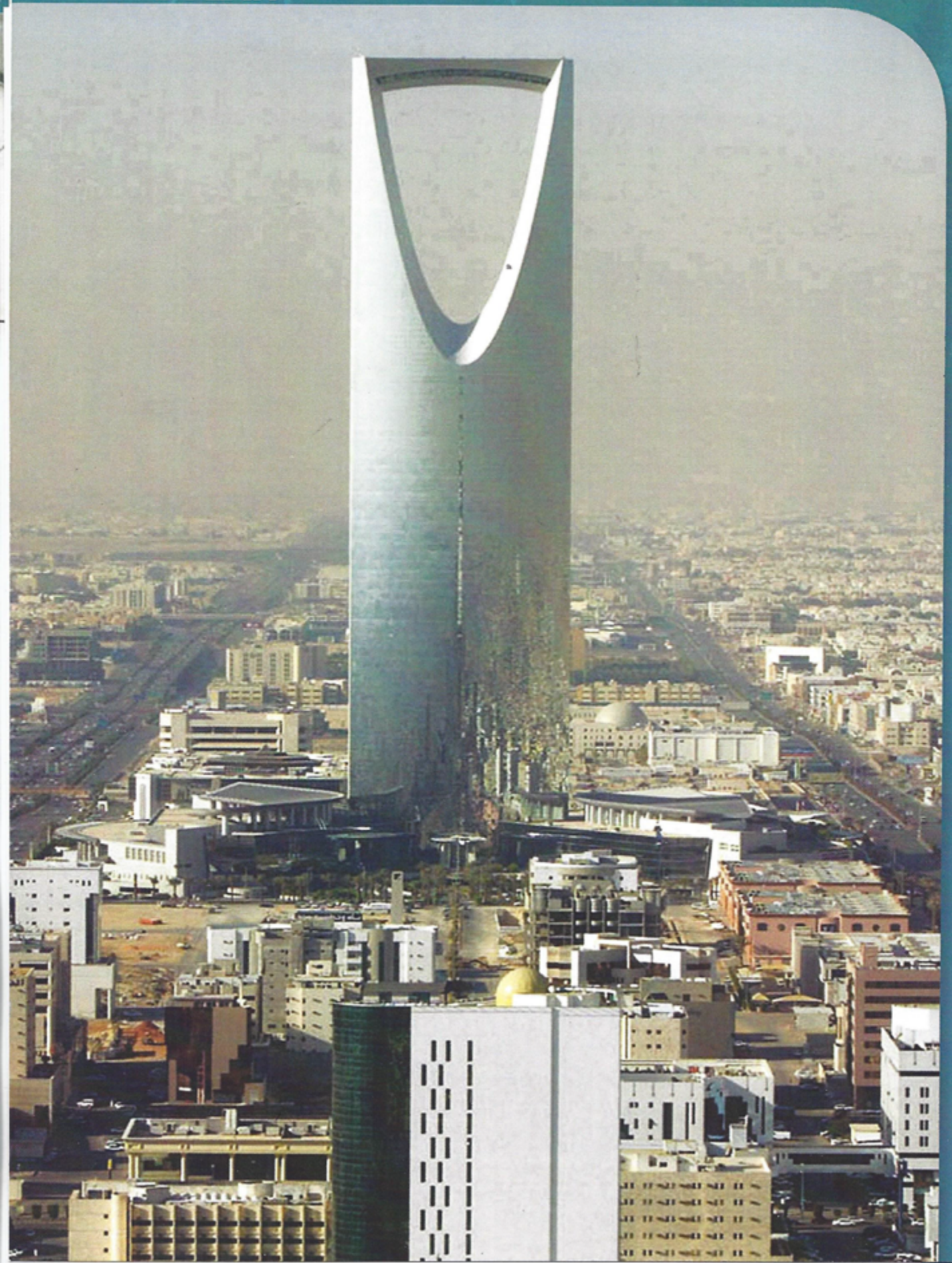
#### Nominal Size 150mm (6in)

BS EN 1092	Diameter of flange	Bolt circle diameter	Number of bolts	Diameter of bolts	Diameter of holes of bolts	Diameter of raised face	Diameter of steel	Height of raised face	Thickness of flange				
									Grey cast iron	Copper alloy	Cast and ductile steel		
FR 6	265	225	8	M16	19	18	199	202	3	2	28 (1)	18	-
FR 10	265	240	8	M20	23	22	211	212	3	2	26 (1)	22	19
FR 14	265	240	8	M20	23	22	211	212	3	2	26 (1)	22	19
FR 25	280	250	8	M24	26	26	211	218	3	2	34 (1)	28	20
FR 40	280	250	8	M24	26	26	211	218	3	2	34 (1)	28	24
FR 64	345	300	8	M30	33	33	218	218	2	2	-	34	-
FR 100	355	290	12	M30	33	33	218	218	2	2	-	44	-

ANSI

Class 150	150 (6.0)	150 (6.0)	8	3/4 (19)	3/4 (22)	3/4 (22)	115 (4.5)	115 (4.5)	3	2	26 (1)	1 (0.5)	1 (0.5)
Class 300	150 (6.0)	150 (6.0)	8	3/4 (19)	3/4 (22)	3/4 (22)	115 (4.5)	115 (4.5)	3	2	26 (1)	1 (0.5)	1 (0.5)
Class 600	150 (6.0)	150 (6.0)	12	1 (25)	1 (25)	1 (25)	115 (4.5)	115 (4.5)	3	2	26 (1)	1 (0.5)	1 (0.5)
Class 900	150 (6.0)	150 (6.0)	12	1 1/4 (32)	1 1/4 (32)	1 1/4 (32)	115 (4.5)	115 (4.5)	3	2	26 (1)	1 (0.5)	1 (0.5)
Class 1500	150 (6.0)	150 (6.0)	12	1 3/4 (41)	1 3/4 (41)	1 3/4 (41)	115 (4.5)	115 (4.5)	3	2	26 (1)	1 (0.5)	1 (0.5)









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