



**JDFF Ductile Fittings Factory**

**JDFF**

**JDFF VALVES**

- Gate Valves
- Butterfly Valves
- Check Valves



 [www.al-jazeaindustrial.com.sa](http://www.al-jazeaindustrial.com.sa)  [www.jdff.net](http://www.jdff.net)  [jdff@jdff.net](mailto:jdff@jdff.net)

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## كلمة رئيس مجلس الإدارة

الحمد لله الذي وفقنا في هذا المجال الذي تم إضافته إلي أنشطة المجموعة التي تشمل مجال المقاولات في إنشاء شبكات المياه و الصرف الصحي و كذلك مجال الزراعة و مجال المستلزمات الطبية و أخيرا هذا المجال الصناعي .

و يعد هذا المصنع إضافة جديدة في مجال المسبوكات الخاصة بمستلزمات شبكات المياه , حيث يعد أول مصنع متخصص في هذا المجال في منطقة الخليج العربي و لقد وفقنا الله تعالى في كسب ثقة الجميع بجودة منتجاتنا و خدمة العملاء و خدمات ما بعد البيع , و نود أن نذكر أن من أسباب نجاحنا هو التوفيق من الله سبحانه و تعالى و من ثم ثقة ثقتنا في انفسنا باننا قادرين على تصنيع كل مستلزماتنا بانفسنا و يجب أن لا ننسى أن نخص بالشكر لكل من ساهم معنا في إنجاح هذا العمل و على رأسهم السادة المسؤولين في قطاع خدمات البنية التحتية و المكاتب الاستشارية من الوزارات و الهيئات و المصالح الحكومية المعنية بالمياه و الصرف الصحي , الذين ساهموا معنا بالدعم الفني و التشجيع لقدرتنا التنافسية على الخوض في هذا المجال .

يسعدنا أن نلتقي معكم في هذا العمل الفني الجديد ( الكتلوج ) بعد ثلاثة عشر سنة من إنشاء المصنع الذي اصبح نواة عدة مصانع انبثقت منه منه العديد حيث تم إنشاء مصنع متخصص في أنابيب البولي اثلين و مصنع متخصص في قطع اتصال الديكتايل و مصنع متخصص في الصمامات , و هذا المصنع المتخصص في أعطية غرف التفتيش الزهر و الديكتايل و مجاري تصريف مياه السيول .  
و هذا كله بفضل الله سبحانه و تعالى ثم بفضل نعمة الأمن و الأمان و المناخ الملائم للاستثمار الذي توفره الدولة لنا في ظل حكومتنا الرشيدة .

هذا و لا يسعنا في نهاية حديثي إلا أن نرفع بأسمى آيات الشكر و العرفان إلي خدام الحرمين الشريفين و ولي عهده الأمين لاهتمامهم و دعمهم بتشجيع الصناعات الوطنية .

و لكم تحياتنا و الله الموفق

أخوكم

فهد محمد الحمادي ..



## مشاركة مصنع جدف في معرض الخليج لتقنيات أعمال المياه

تشريف صاحب سمو الملكي الأمير  
سلطان بن عبد العزيز سمو النائب الثاني  
لرئيس مجلس الوزراء



تشريف خادم الحرمين الشريفين الملك  
سلمان بن عبد العزيز

زيارة السادة المهندسين بإدارة المشاريع  
لوزارة المياه بمنطقة الرياض





## اهتمام السادة رؤساء ومهندسي وزارة المياه في المملكة بزيارة جناح مصنع جدف

زيارة سعادة المدير العام لوزارة المياه  
بالمنطقة الشرقية



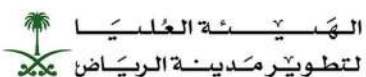
زيارة سعادة مدير عام وزارة المياه  
بمنطقة القصيم

زيارة السادة المهندسين بإدارة المشاريع  
لوزارة المياه بمنطقة مكة المكرمة









المؤسسة العامة للخطوط الحديدية  
SAUDI RAILWAYS ORGANIZATION





## AL-JAZEA INDUSTRIAL CO. Jdff fitting factory

The factory has been established since 1998 for producing and supplying the infrastructure project requirements notably the products of water and sewage systems .

The factory applies the latest state-of-the art technologies to produce network requirements such as water type fixtures usual / mechanical ductile pipe fittings , gate valves , and butterfly valves of various sizes ( fittings and valves of various types and sizes )

The factory is the first in the Gulf region to produce this kind of pipes and their fittings to meet all requirements of water and sewage departments throughout the kingdom of Saudi Arabia

Foreign markets have also been opened grace and praise be to Allah the almighty to export some of our products have covered markets in Bahrain , UAE , Oman , Kuwait . Qatar , Lebanon , Jordan , Croatia ,Egypt , Sudan , Syria , morocco , Italy and Yemen .

The factory has been awarded the total quality certificate ( ISO 9001 : 2000 ) since early 2003 . it is equipped with all tools apparatuses and other equipment necessary for achieving the required quality and governance . Its products have been highly appreciated and praised by our external and internal customers since the policy of our company is primarily aimed at achieving customer satisfaction, meeting customer needs and being up to customer expectations .

## شركة الجازع الصناعية

### مصنع جدف لمسبوكات حديد الدكتايل

تم إنشاء مصنع جدف لإنتاج مسبوكات الحديد الدكتايل في عام 1998 , و ذلك لإنتاج و توريد مستلزمات مشروعات البنية التحتية خاصة منتجات شبكات المياه و الصرف الصحي .

يطبق المصنع احدث تكنولوجيا العصر لإنتاج مستلزمات الشبكات مثل قطع المياه و وصلات المواسير الدكتايل سواء العادية أو الميكانيكية و كذلك صمامات البوابة و الفراشة مقاسات مختلفة

ويعتبر هذا المصنع الأول في منطقة الخليج العربي لإنتاج مثل هذه النوعية من المنتجات لتلبية كافة احتياجات مديريات المياه و الصرف الصحي على مستوى المملكة .

و قد تم بفضل الله فتح أسواق خارجية لتصدير جزء من منتجات المصنع الي كل من البحرية و الإمارات و سلطنة عمان و الكويت و قطر و لبنان و الاردن و كرواتيا و مصر و السودان و سوريا و المغرب و إيطاليا و اليمن .

و قد حصل المصنع على شهادة الجودة الشاملة ( ISO 9001 : 2000 ) منذ بداية عام 2003 م و تتوافر لديه كافة الأجهزة اللازمة لتحقيق منتجات الجودة المطلوبة و الرقابة عليها . حيث لاقت منتجات المصنع قبولا و استحسانا لدى عملائها بالداخل و الخارج , حيث تهدف سياسة الشركة في المقام الأول إلى إرضاء عملائها و تحقيق و إشباع رغباتهم .





## CERTIFICATE OF REGISTRATION

This is to certify that

### JDFF Ductile Fittings Factory

Central Rigion, 2nd Industrial Area, Street# 170, Riyadh 11383 Kingdom of Saudi Arabia

operates a

### Quality Management System

which complies with the requirements of

### ISO 9001:2015

for the following scope of certification

**Manufacturing and Sales of Ductile iron Fittings, Valves, Manhole Covers, Gratings and Job Castings.**

Certificate No.: CERT-0112580  
File No.: 1605271  
Issue Date: January 17, 2018

Original Certification Date: March 19, 2009  
Certification Effective Date: March 16, 2018  
Certificate Expiry Date: March 15, 2021

Nicole Grantham  
General Manager SAI Global Certification Services



ISO 9001



Registered by:  
QMI-SAI Canada Limited (SAI Global), 20 Carlson Court, Suite 200, Toronto, Ontario M9W 7K9 Canada. This registration is subject to the SAI Global Terms and Conditions for Certification. While all due care and skill was exercised in carrying out this assessment, SAI Global accepts responsibility only for proven negligence. This certificate remains the property of SAI Global and must be returned to them upon request.  
To verify that this certificate is current, please refer to the SAI Global On-Line Certification Register: [www.qmi-saiglobal.com/qmi\\_companies/](http://www.qmi-saiglobal.com/qmi_companies/)



INFORM. INSPIRE. IMPROVE.





Approval Number: 1805507  
Test Report: MAT/LAB 185B



25<sup>th</sup> June 2018

JDFF Ductile Fitting Factory  
P. O. Box 355959,  
Riyadh 11383,  
2nd Industrial area,  
Kingdom of Saudi Arabia.

Water Regulations Advisory Scheme Ltd.  
Unit 13,  
Willow Road,  
Pen y Fan Industrial Estate,  
Crumlin,  
Gwent,  
NP11 4EG

**WATER REGULATIONS ADVISORY SCHEME LTD. (WRAS)**  
**MATERIAL APPROVAL**

The material referred to in this letter is suitable for contact with wholesome water for domestic purposes having met the requirements of BS6920-1:2000 and/or 2014 'Suitability of non-metallic products for use in contact with water intended for human consumption with regard to their effect on the quality of the water'.

The reference relates solely to its effect on the quality of the water with which it may come into contact and does not signify the approval of its mechanical or physical properties for any use.

**COATINGS, PAINTS & LININGS - FACTORY APPLIED PIPE & FITTINGS COATINGS.**

**5030**

'JDFF epoxy powder coating'. Factory applied, blue coloured fusion bonded epoxy coating. Apply as per manufacturer's instructions (Procedure #: Pc-01-3, Work Instruction #: JDFF WI-Pc-01-3-1, Revision #: 2, Issue #: 1, date: 2-6-2018). Cure for 2½ minutes at 232° C. For use with water up to 85° C.

This material is only approved for the curing conditions that appear on the approval. If the cure conditions are varied from those specified then the material is not covered by the scope of the approval.

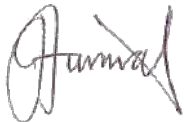
**APPROVAL NUMBER: 1805507**  
**APPROVAL HOLDER: JDFF DUCTILE FITTING FACTORY**

The Scheme reserves the right to review approval.  
Approval 1805507 is valid between May 2018 and May 2023

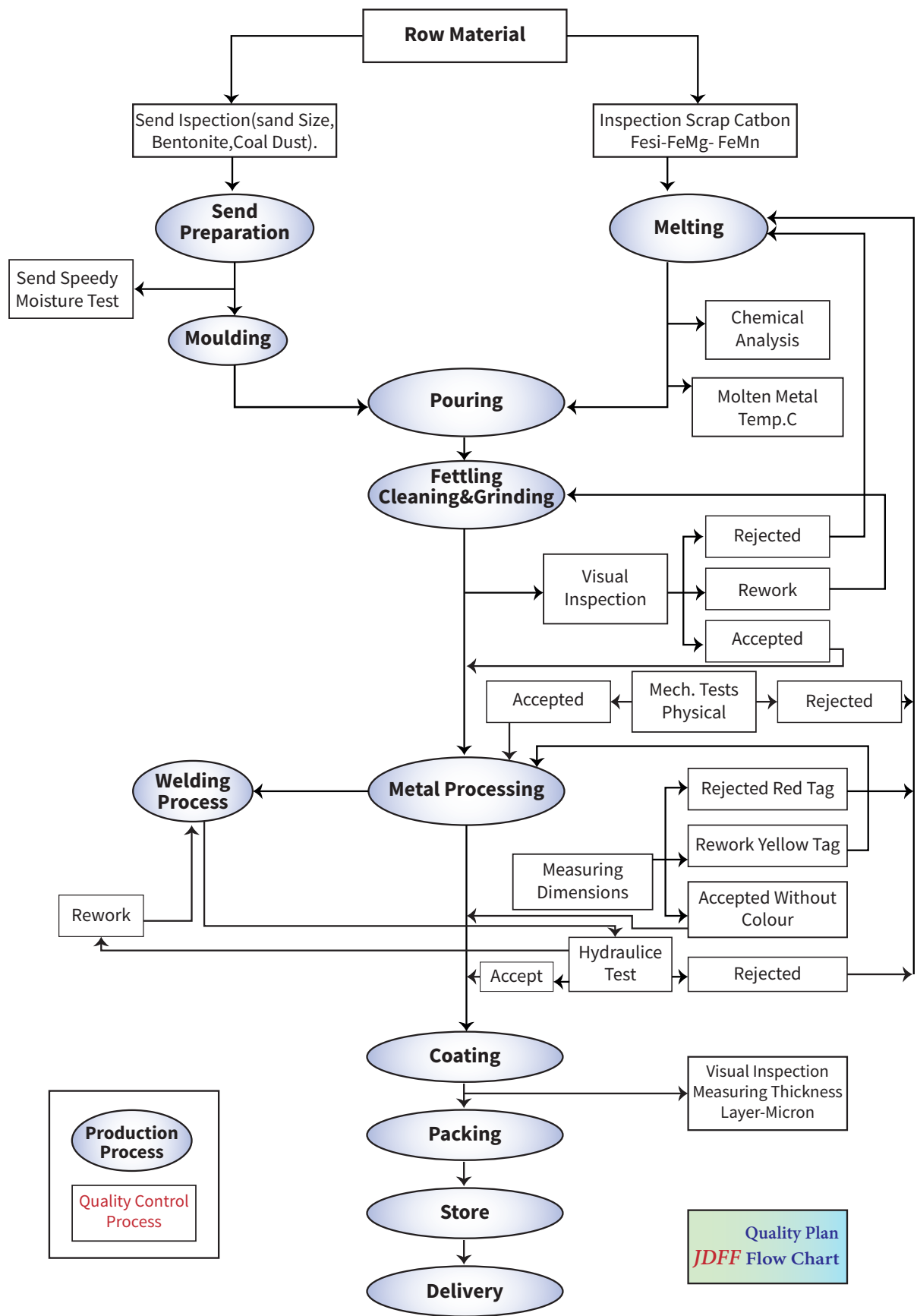
An entry, as above, will accordingly be included in the Water Fittings Directory on-line under the section headed, "Materials which have passed full tests of effect on water quality".

The Directory may be found at: [www.wras.co.uk/directory](http://www.wras.co.uk/directory)

Yours faithfully



Jason Furnival  
Approvals & Enquiries Manager  
Water Regulations Advisory Scheme



*Customer Service Delivery*



## INTRODUCTION

Jdff factory was established in 1997 at Riyadh for DCI fittings It is the latest edition joining The Al JAZEA group . it is the result of long and hard effort the establish a new and unique industry in the kingdom the overcome the increasing needs and the high demand of DCI fittings for Saudi market and the adjacent markets as well .

## QUALITY ASSURANCE

With professional knowledge & techniques . up – to –date equipments and solid system , our quality assurance is rather integral from incoming raw material to the finished products and the final goal of our quality control is « Customers satisfaction »

## Test Certificates

These certificates are awarded by accountable outside organizations who regularly check their validity .

ORGANISATION	CERTIFICATE	SUBJECT
ISO 9001	Quality assurance system approval	These certificates attest that the Jdff quality complies with the requirements of the ISO 9001 Standards for the manufacture of Spheroidal graphite iron pipes and fittings.
Customer Request	Jdff Test Certificates	These certificates are issued for the quality control parameters checked according to the relevant standards.
SGS Group	Third Party Inspection Approval of Pipes and Fittings.	This Document certifies the inspection,testing has been made during production of pipes and fittings as per approved standards as well as inspection certificate during packing prior to delivery and shipping.

**Traceability :** The quality team supervises the Q.A / Q.C aspects along the entire process system by identifying and associating with Quality Circles . Jdff ensures 100 % tractability for the produce .

## HISTORY OF DUCTILE IRON

### What is the Ductile iron material ?

Grey Iron is a cast iron have flakes Graphite shape in its composition. In 1948 small amount of magnesium were added to molten cast iron. It was found that the Flaky Graphite were changed to spheroidal shape, accordingly a mechanical properties of the metal were changed, the new metal is called Ductil Iron .

### Advantages of Ductile Iron Pipes & Fittings

- 1 .High tensile strength, good elastic module and excellent, making it suitable for big stress applications and where pressure surge may be experienced.
2. Ductile iron pipes has a high corrosion resistance.
3. Excellent hydraulic flow.
4. High working pressure comparing to other types of pipes & Fittings.
5. Easy of installation.
6. Long lifetime.
7. Can accommodate ground movement .

### Main applications of ductile iron pipes

- 1 .Drinking and irrigation water.
2. Fire fighting systems.
3. Transmission of gas & fuel.
4. Waste water & sewage

### Microstructure of Ductile iron & grey cast iron .





## Ductile Cast Irons

Spheroidal Graphite Iron in accordance to ISO 1083 and DIN 1693, EN 1563

Ductile Iron is a cast iron in which graphite is present as spheroids. This Spheroidal Graphite is obtained by the Magnesium treatment.

Ductile Iron give the castings many desirable properties like good machinability, high tensile strength, good elastic module. Low Hardness, high ductility and good thermal conductivity .

### Mechanical Properties :

To check the specifications for Tensile Strength and hardness ,the test is carried out by the test piece, (testing of Tensile Strength by the Universal Testing Machines to meet the standard requirement .)

Sr.No.	Properties (GGG.50)	Range
1	Min.Tensile Strength(N/mm <sup>2</sup> )	490 - 510
2	Elongation %	10
3	Bending Strength N/mm <sup>2</sup>	80 - 90
4	Brinell Hardness (HB)	170 -240





### Hydrostatic Test pressure

	PN 10	PN 16	PN 25	PN 40
	PRESSURE IN BARS			
<b>NOMINAL PRESSURE (1.0 X PN)</b>	<b>10</b>	<b>16</b>	<b>25</b>	<b>40</b>
<b>STRENGTH TESTING (1.5 X PN)</b>	<b>15</b>	<b>24</b>	<b>37.5</b>	<b>60</b>
<b>SEALING TESTING (1.1 X PN)</b>	<b>11</b>	<b>17.6</b>	<b>27.5</b>	<b>44</b>





## COMPARISON OF MECHANICAL PROPERTIES

MAIN INDEX				INTERNATIONAL EQUIVALENTS			
TENSILE STRENGTH KG/MM <sup>2</sup>	YIELD STRENGTH KG/MM <sup>2</sup>	ELONGATION %	HARDNESS HB				
				ASTM	BS	JIS	DIN
38	23	27	156	1015/C1015	En2	S15C	C15
46	28	23	170	1025/C1025	En4	S25C	C22
61	36	16	197-241	1045/C1045	En8D	S45C	C45
42	25	26	163	1115/C1115	En14A	SB46	14Mn4
60	36	17	207-229	1036/C1036	En15B	S40C	40Mn4
85	55	10	179-229	5120/C5120	En207	SCr420	20Cr4
90	70	12	197-241	4119/C4118	CDS12	SCM420	20CrMo5
75	44	9	229-285	1016/C1016	En43E		
60	42	20	187	410	En56A	SUS410	X20Cr13
55	20	45		304	En58A	30 4	X12CrNi18
15			163-229	A48-74	BS1452-77	G5501	DIN1693
				class20	Grade150	FC15	GG15
				class30	Grade180	FC20	GG15
				class35	Grade260	FC25	GG25
20			170-241	class30	Grade180	FC20	GG15
25			187-255	class35	Grade260	FC25	GG25
30			187-255	class40	Grade300	FC30	GG30
35		10	120-163	A47-74	RS316-72	G5702-1998	GTS35-10
				Grade340-12	FCMB340		
45		10	170-207	A536-72	RS2789-86	FCD45	GGG-42
				65-45-12	Grade450-10	G5502	
50		7	187-255	70-50-5	Grade500/7	FCD50	GGG50
60		3	197-269	80-60-3	Grade600/3	FCD60	GGG60
70		2	225-315	100-70-3	Grade700/2	FCD70	GGG70



## Quality control :

Quality Assurance - With professional knowledge & techniques, up-to-date equipments and solid systems, our quality assurance is rather integral from incoming raw material to the finished products and the final goal of our quality control is «customers satisfaction»



**Thermal Analysis:** To check the temperature of the metal throughout the process and also determine the Carbon and Silicon content which affects the strength of the material .

**Spectrgraphic Analysis:** Chemical Analysis of metal in solid state is determined by spectrometer just before pouring to determine the exact percentage of all (15) elements .



**Metal Graphic examination:** Determination of microstructure of metal by metallurgical microscope The microstructure of the metal defines the grade of the castings .





## Physical Tests :

Universal testing machine to determine the Tensile strength and elongation of the metal .



Fully Computerised Hardness testing instrument for testing the hardness of metal in process as well as the finished products .



## Sand Testing :

Fully Equipped laboratory to monitor the properties of moulding sand..

Good Quality Sand in moulding gives good Quality of castings.To ensure freedom of castings from defects related to mould and core we have equipments to test the sieve analysis; moisture content , clay % mould hardness and the core hardness .



Sand Moisture tester to determine the moisture content in the moulding sand

The mould hardness tester and the core hardness tester determines the hardness value of the moulded sand and of the cores prepared resp . for good quality of the castings.



The Leakage test of valves done by fully automated leakage test instrument.



**Pressure Dial Tester**

**Accessories for valve**



**Epoxy Resin Powder Coating**



# VALVES





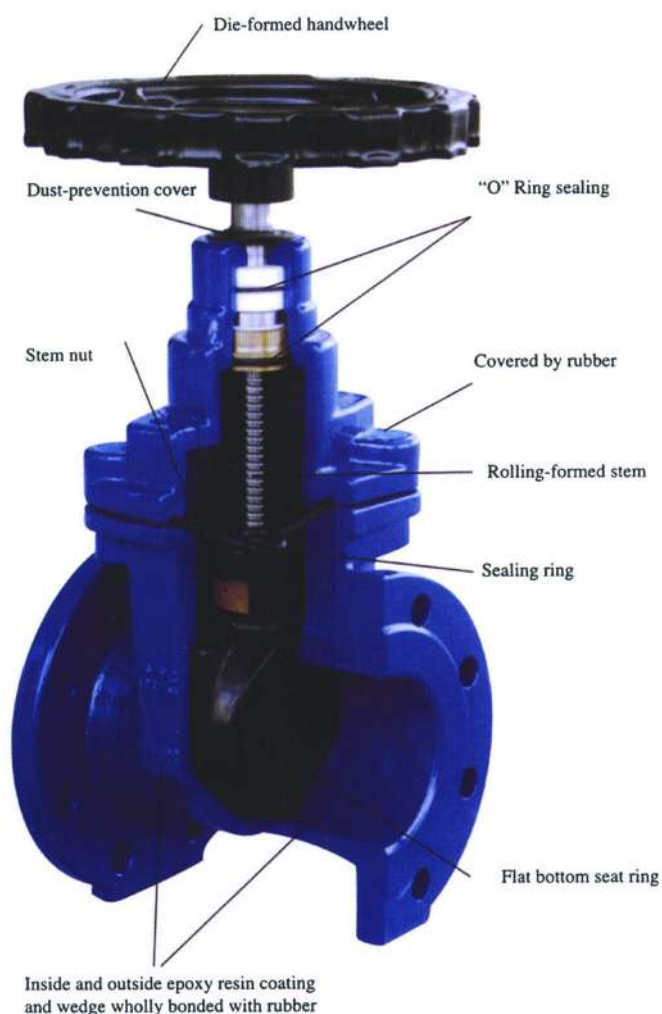


## Resilient-seated Gate Valves

### JDFF RESILIENT SEATED GATE VALVES

**General :** resilient seated gates is adapted to the requirements of the market and the valve technical development. It adopts electrostatic epoxy resin powder coating and wedge rubber-bonding. These kinds of technologies introduced from Germany. These kinds of technologies provide the Valves with excellent, corrosion resistance and sealing capability .

**Application Scope:** potable water supply and distribution, foodstuff, plant construction gas supply, waste water treatment and sewerage, marine, and industrial field .



### Main features:

- a. Compact design:** One-piece bonnet, non rising stem
- b. body and bonnet** made of ductile iron which promote the impact resistance and pressure-bearing property.
- c. one-piece** rolling-formed stem made of Stainless Steel insure high strength and good accuracy.
- d. Three»O» rings** design for stem back sealing leads to maintenance-free.
- e. Resilient wedge:** ductile iron bone wholly bonded with rubber. This provides a reliable sealing capability.
- f. Flat bottom** seat ring integral with the body insures no dead space and flow resistance for fluid in the valve pass way.
- g. Corrosion Protection:** inside & outside. electrostatic epoxy resin coating (EKB..



## Resilient - seated Gate valve with Flange

- Design standard: BS5163
- Flange: EN 1092
- Face to face dimensions: BS5163
- Working temperature: NBR<=80° C
- EPDM<=120°C
- FPMS<=160°C
- Testing standard:BS5163

DN (mm)	L (mm)	H (mm)	□S (mm)	flange dimensions to EN1092 (mm)												Weight (Kg)	
				O		C		g		f	T		n-d				
				1.0MPa	1.6MPa	1.0MPa	1.6MPa	1.0MPa	1.6MPa		1.0MPa	1.6MPa	1.0MPa	1.6MPa	1.0MPa	1.6MPa	
50	178	260	14	165		125		99		3	19		4-19		13		
65	190	270	17	185		145		118			19		4-19		15		
80	203	310	17	200		160		132		3	19		8-19		20		
100	229	340	19	220		180		156			19		8-19		27		
125	254	405	19	250		210		184		3	19		8-19		44		
150	267	460	19	285		240		211			19		8-23		49		
200	292	570	24	340		295		266		3	20		8-23	12-23	82	83	
250	330	660	27	400	400	350	355	319			3	22		12-23	12-28	130	131
300	356	770	27	455	455	400	410	370		4		24.5		12-23	12-28	178	180
350	381	870	27	505	520	460	470	429			4	24.5	26.5	16-23	16-28	225	235
400	406	1010	32	565	580	515	525	480		4		24.5	28	16-28	16-31	300	315
450	432	1080	32	615	640	565	585	530	548		4	25.5	30	20-28	20-31	400	420
500	457	1180	36	670	715	620	650	582	609	4		26.5	31.5	20-28	20-34	525	550
600	508	1345	41	780	840	725	770	682	720		5	30	36	20-31	20-37	660	690

- Design standard: ANSI/AWWA C509
- Flange: ANSI B 16. 1
- Face to face dimensions:ANSI B16. 10
- Working temperature: NBR<=80° C
- EPDM<=120°C
- FPMS<=160°C
- Testing standard: ANSI/AWWA C509

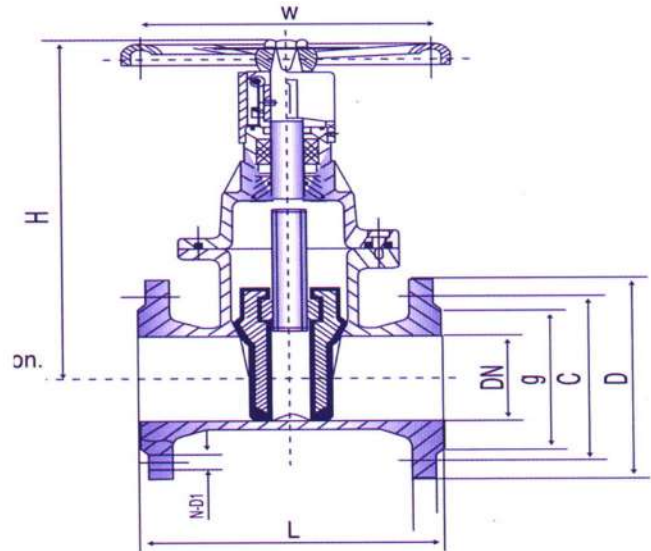
DN	L ANSI B16.10	H	W	flange dimensions to ANSI B16.1				(Kg)
				O	C	T	n-d	
50	2"	178	250	152	120.5	15.9	4-19	15
65	2.5"	190	250	178	139.5	17.5	4-19	17
80	3"	203	250	191	152.5	19.1	4-19	25
100	4"	229	250	229	190.5	23.9	8-19	30
125	5"	254	350	254	216.0	23.9	8-22	48
150	6"	267	350	279	241.5	25.4	8-22	50
200	8"	292	350	343	298.5	28.6	8-22	100
250	10"	330	500	406	362	30.2	12-25	135
300	12"	356	500	483	432	31.8	12-25	200
350	14"	381	500	533	476	35	12-29	258
400	16"	406	640	597	539	36.6	16-29	342
450	18"	432	640	635	578	39.7	16-32	480
500	20"	457	640	699	635	42.9	20-32	594
24"	508	1345	640	813	749.5	47.7	20-35	745

## Resilient -seated Gate Valve with Flange

- Design standard: DIN3352 Part 4
- Flange: DIN2501
- Face to face dimensions:
- DIN3202 ( equal to 1S05752 )
- Testing standard: DIN3230 or J79092/13
- Working temperature: NBR <= °80C

EPDME <=°120C

FPM <= °160C



### ■ Technical characteristics :

testing standard	DIN3230 or JB/T9092	
Nominal pressure	1.0Mpa	1.6Mpa
Strength testing	1.5Mpa	2.4Mpa
Functional testing	1.1MPa	1.76Mpa

### ■ Main components and their materials:

NO.	name	material
1	Body - Bonnet	GGG50 with internal and external epoxy resin coating
2	wedge	GGG50 with NBR, EPDM OR FPM coating
3	Stem	Stainless steel F 304
4	Stem nut - bushing	Bronze
5	washer - O-Ring	NBR, EPDM or FBM

### ■ Dimensions & weights :

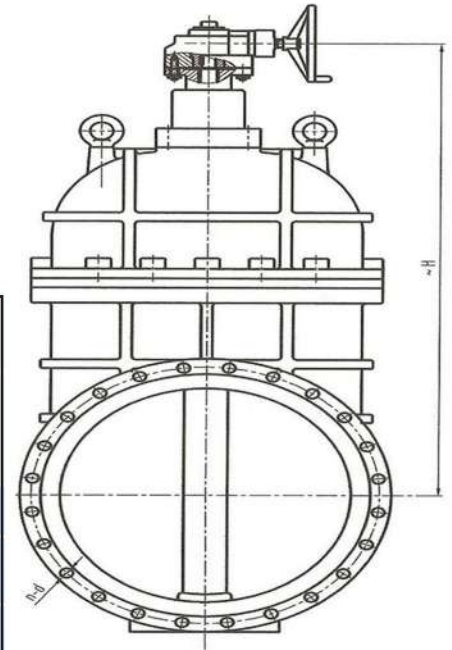
DN mm	L (mm)		H mm	W mm	flange dimensions to DIN2501 (mm)								Weight (Kg)						
	F4	F5			O		C		g		f	T		n-d		F4		F5	
					1.0 Mpa	1.6 Mpa	1.0 Mpa	1.6 Mpa	1.0 Mpa	1.6 Mpa		1.0 Mpa	1.6 Mpa	1.0 Mpa	1.6 Mpa	1.0 Mpa	1.6 Mpa		
50	150	250	260	250	165		125		99	3	19		4-19	13		15			
65	170	270	270	250	185		145		118	3	19		4-19	15		18			
80	180	280	310	250	200		160		132	3	19		8-19	20		24			
100	190	300	340	250	220		180		156	3	19		8-19	28		32			
125	200	325	405	350	250		210		184	3	19		8-19	44		48			
150	210	350	460	350	285		240		211	3	19		8-23	50		56			
200	230	400	570	350	340		295		266	3	20		8-23 12-23	82 85		90 96			
250	250	450	660	500	395	405	350	355	319	3	22		12-23 12-28	125 132		140 152			
300	270	500	770	500	445	460	400	410	370	4	24.5		12-23 12-28	170 178		191 210			
350	290	550	870	500	505	520	460	470	429	4	24.5 26.5		16-23 16-28	218 228		250 265			
400	310	600	1010	640	565	580	515	525	480 489	4	24.5 28		16-28 16-31	288 304		320 340			
450	330	650	1080	640	615	640	565	585	530 548	4	25.5 30		20-28 20-31	378 394		410 430			
500	350	700	1180	640	670	715	620	650	582 609	4	26.5 31.5		20-28 20-34	498 518		530 560			
600	390	800	1345	640	780	840	725	770	682 720	5	30 36		20-31 20-37	635 670		680 715			



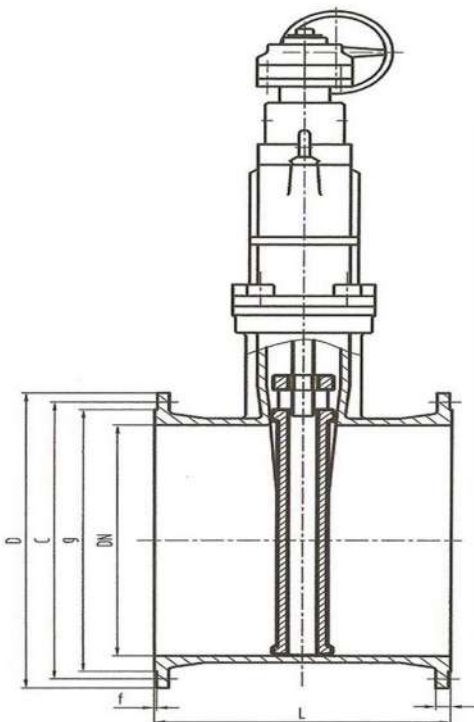


## Resilient -seated Gate Valve with Flange

- Design standard: DIN3352 Part 4
- Flange: DIN2501 | Face to face dimensions:
- DIN3202 ( equal to 1S05752 )
- Testing standard: DIN3230 or J79092/13
- Working temperature: NBR <math>\leq 80^{\circ}\text{C}</math>  
 EPDME <math>\leq 120^{\circ}\text{C}</math>  
 FPM <math>\leq 160^{\circ}\text{C}</math>



DN	L	H	O		C		g		f	T		n-d	
			PN10	PN16	PN10	PN16	PN10	PN16		PN10	PN16	PN10	PN16
			700	430	1515	895	910	840		840	794	794	32.5
800	470	1985	1015	1025	950	950	901	901	35.0	43.0	24- $\phi$ 34	24- $\phi$ 40	
900	510	1985	1115	1125	1050	1050	1001	1001	5	37.5	46.5	28- $\phi$ 34	28- $\phi$ 40
1000	550	2380	1230	1255	1160	1170	1112	1112		40.0	50.0	28- $\phi$ 37	28- $\phi$ 43
1200	811	2380	1455	1485	1380	1390	1328	1328		45.0	57.0	32- $\phi$ 40	32- $\phi$ 49



### PN 25

DN	L	H	f	T	n-d	g	C	D
50	250 $\pm$ 3.0	260	3	19	4- $\phi$ 19	99	125	165
65	270 $\pm$ 3.0	270			8- $\phi$ 19	118	145	185
80	280 $\pm$ 3.0	305			8- $\phi$ 19	132	160	200
100	300 $\pm$ 3.0	345			8- $\phi$ 23	156	190	235
150	350 $\pm$ 3.0	464			8- $\phi$ 28	211	250	300
200	400 $\pm$ 3.0	570	4	22	12- $\phi$ 28	274	310	360
250	450 $\pm$ 3.0	666		24.5	12- $\phi$ 31	330	370	425
300	500 $\pm$ 4.0	760		27.5	16- $\phi$ 31	389	430	485
350	550 $\pm$ 4.0	945		30	16- $\phi$ 34	448	490	555
400	600 $\pm$ 4.0	1080		32	16- $\phi$ 37	503	550	620
450	650 $\pm$ 4.0	1190		34.5	20- $\phi$ 37	560	600	670
500	700 $\pm$ 4.0	1230		36.5	20- $\phi$ 37	609	660	730



## RESILIENT-SEATED SOCKET GATE VALVE

### ADVANTAGES :



#### • **Summary:**

• This gate valve with socket ends can be connected with pipes directly without flanges, which leads to convenient installation. Flat bottom seat ring integral with the body, inside and outside epoxy resin coating, wedge wholly bonded with rubber, «o» ring sealing, all insure excellent corrosion protection and reliable sealing capability. This valve is recommended to be installed under the surface box, operated by an adjustable extension spindle.

#### ■ **Unique Design.**

• **Valves** can be connected and sealed with pipes directly.

• Compact design: one-piece bonnet, non-resing stem.

• Flat bottom seat ring isures no dead space.

■ **Three**«o»ring for stem back sealing leads to maintenance-free.

• **Excellent** corrosion protection:

• Inside epoxy resin coating or vitreous enamel ( upon request ), outside epoxy resin coating.

■ **Socket** head cap bolts, sealed with glue on the top.

■ Reliable heath nature:

• **Epoxy** resin coating is up to GB/T172191998-.

• Wedge bonded with rubber for the health inspection.

■ Trims are made of stainless steel or bronze.

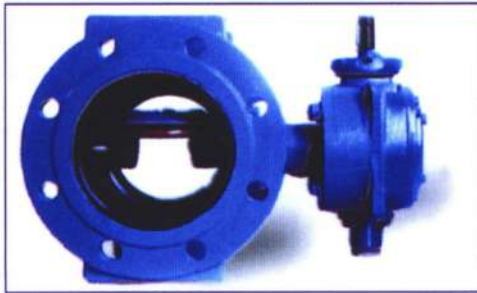
• Scope of application:

• Potable water supply, industrial fields and so on.





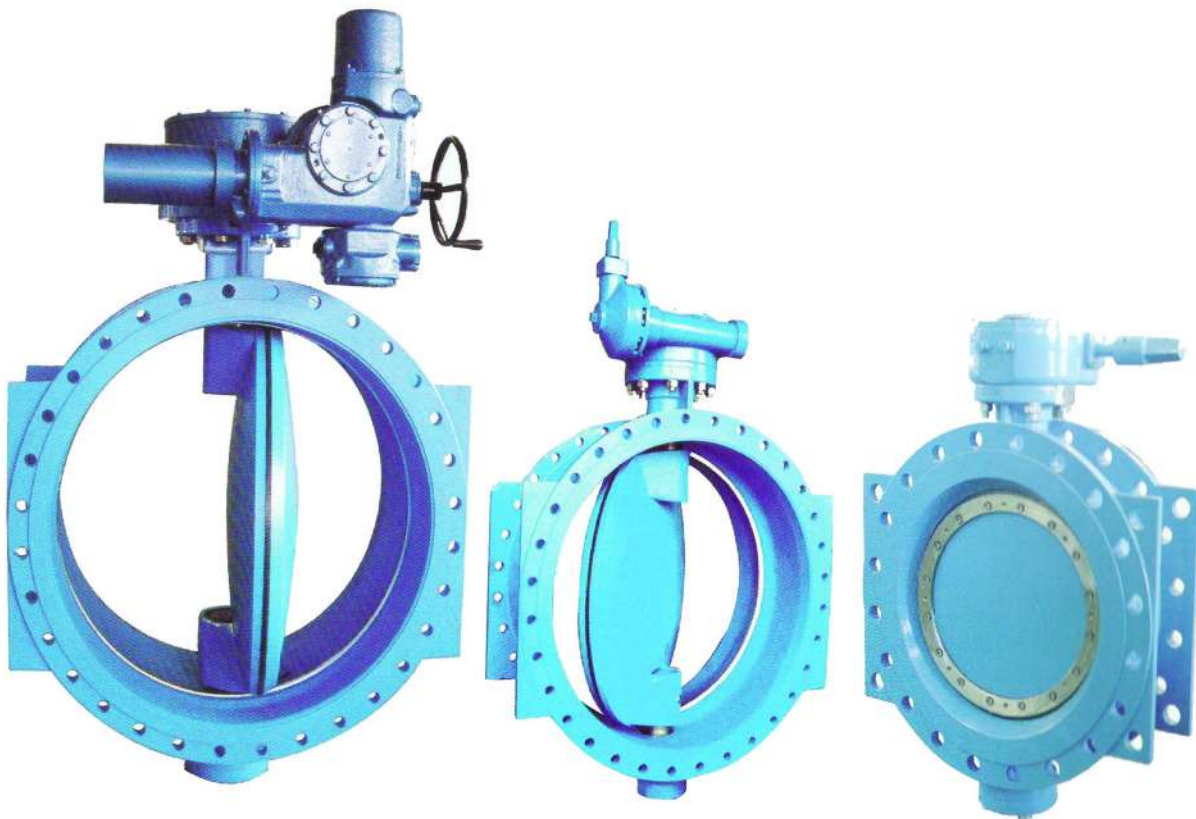
## Double eccentric end-flanged resilient sealing butterfly valves



worm-gear driving double eccentric butterfly valve with inner enamel lined

### JDF RESILIENT SEATED BUTTERFLY VALVES

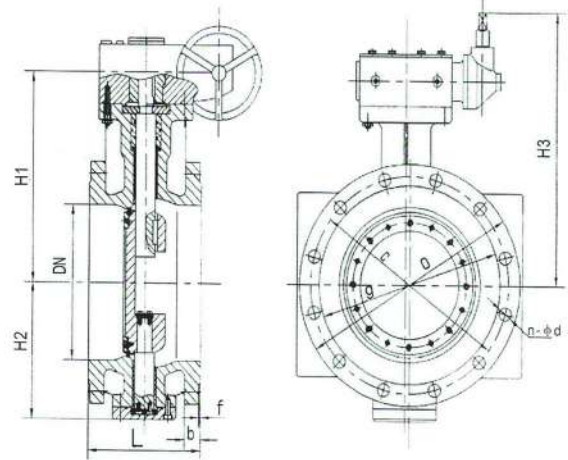
**General :** The desing of resilient seated butterfly valve is adapted to the requirements of the market and the valve technical development. It adopts unique design of double eccentric and single eccentric buttating the rotary opening movement the disc is off-seated after only a few degree tear between seat ring and disc. This kind valve is suitable for application in potable water supply and distribution, foodstuff, plant construction, gas supply, wastewater treatment and sewage, and industrial field.





## Resilient-seated Butterfly valve

- Design standard: DIN3354
- Flange: DIN2501
- Face to face dimensions: DIN3202 or Bs5155
- Top Flange: ISO5211
- Testing standard: DIN3230 or GB/T13927
- Working temperature: NBR ≤80°C    EPDM ≤120°C  
FPM ≤160°C



### ■ Technical Characteristic:

Nominal diameter	DN150~2600mm		
Nominal pressure	1.0MPa	1.6MPa	2.5MPa
Strength testing	1.5MPa	2.4MPa	3.75MPa
Sealing testing	1.1MPa	1.76MPa	2.75MPa

### ■ main components and materials:

NO.	name	material
1	body, disc,	GGG50 with internal and external epoxy resin coating
2	stems	Stainless steel F 304
3	bushing	Bronze
4	seal ring, O-Ring	NBR、EPDM or FPM

### ■ Dimensions PN 1.0MPa 1.6MPa 2.5MPa

(mm)

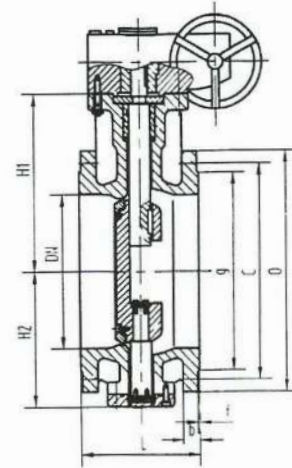
DN	H1	H2	H3	flange dimensions comply with DIN2501															
				O			C			g			f	b			n-d		
				1.0	1.6	2.5	1.0	1.6	2.5	1.0	1.6	2.5		1.0	1.6	2.5			
150	226	165		285	285	300	240	240	250	212	212	211	3	19	19	20	8-23	8-23	8-28
200	255	192		340	340	360	295	295	310	268	268	274	3	20	20	22	8-23	12-23	12-28
250	293	227		395	405	425	350	355	370	320	320	330	3	22	22	24.5	12-23	12-28	12-31
300	326	260		445	460	485	400	410	430	370	378	390	4	24.5	24.5	27.5	12-23	12-28	16-31
350	368	314		505	520	555	460	470	490	430	438	450	4	24.5	26.5	30	16-23	16-28	16-34
400	423	346	634	565	580	620	515	525	550	482	490	500	4	24.5	28	32	16-28	16-31	16-37
450	455	385	666	615	640	670	565	585	600	532	550	560	4	25.5	30	34.5	20-28	20-31	20-37
500	506	422	728	670	715	730	620	650	660	585	610	610	4	26.5	31.5	36.5	20-28	20-34	20-37
600	568	490	790	780	840	845	725	770	770	685	725	720	5	30	36	42	20-31	20-37	20-40
700	632	550	854	895	910	960	840	840	875	800	795	820	5	32.5	39.5	46.5	24-31	24-37	24-43
800	692	615	924	1015	1025	1085	950	950	990	905	900	930	5	35	43	51	24-34	24-40	24-49
900	815	678	1098	1115	1125	1185	1050	1050	1090	1005	1000	1028	5	37.5	46.5	55.5	28-34	28-40	28-49
1000	880	743	1163	1230	1255		1160	1170		1110	1115		5	40	50		28-37	28-43	
1200	1024	860	1307	1455	1485		1380	1390		1330	1330		5	45	57		32-40	32-49	
1400	1210	1010	1350	1675	1685		1590	1590		1535	1530		5	46	60		36-43	36-49	
1600	1340	1140	1480	1915	1930		1820	1820		1760	1750		5	49	65		40-49	40-56	
1800	1460	1360	1640	2115			2020			1960			5	52			44-49		
2000	1660	1485	1800	2325			2230			2170			5	55			48-49		

DN	H1	H2	H3	O		C		g		f	b		n-d			
				0.6	1.0	0.6	1.0	0.6	1.0		0.6	1.0				
2200	1000		1760	1617	2010	2475	2550	2390	2440	2335	2370	6	56	60	52-43	52-56
2400	1100		1885	1745	2135	2685	2760	2600	2655	2545	2570	6	58	62	56-43	56-56
2600	1200		2004	1837	2255	2905	2960	2810	2850	2750	2780	6	60	64	60-49	60-56



## Resilient -seated Gate Valve with Socket ends

- Design standard: JB/T8257 -1997
- Flange: DIN2501
- Face to face dimensions: BS5155
- Topper Flange:1505211
- Testing standard: JB/T8257 -1997
- Working temperature: -O-ring NBR<=C.0°80  
EPDM<=°5120C  
FPMS<=°160C



### ■ Technical Characteristic:

Nominal diameter	DN150 ~ 2600mm		
Nominal pressure	0.6MPa	1.0MPa	1.6MPa
Strength testing	0.9MPa	1.5MPa	2.4MPa
Sealing testing	0.66MPa	1.1MPa	1.76MPa

### ■ main components and materials:

NO.	name	material
1	body, disc	GGG50 with internal and external epoxy resin coating
2	stems	Stainless steel F 304
3	bushing	Bronze
4	seal ring, O-Ring	NBR, EPDM or FPM

### ■ Dimensions PN 0.6MPa 1.0MPa 1.6MPa

(mm)

DN	L	H1	H2	flange dimensions comply with DIN2501														
				O			C			g			f	b			n-d	
				0.6	1.0	1.6	0.6	1.0	1.6	0.6	1.0	1.6		0.6	1.0	1.6		
150	140	186	165	285	285		240	240		212	212	3	19	19		8-23	8-23	
200	152	215	192	340	340		295	295		268	268	3	20	20		8-23	12-23	
250	165	253	227	395	405		350	355		320	320	3	22	22		12-23	12-28	
300	178	282	260	445	460		400	410		370	378	4	24.5	24.5		12-23	12-28	
350	190	320	314	505	520		460	470		430	438	4	24.5	26.5		16-23	16-28	
400	216	353	346	565	580		515	525		482	490	4	24.5	28		16-28	16-31	
450	222	385	385	615	640		565	585		532	550	4	25.5	30		20-28	20-31	
500	229	424	422	670	715		620	650		585	610	4	26.5	31.5		20-28	20-34	
600	267	486	490	780	840		725	770		685	725	5	30	36		20-31	20-37	
700	292	550	550	895	910		840	840		800	795	5	32.5	39.5		24-31	24-37	
800	318	610	615	1015	1020		950	950		905	900	5	35	43		24-34	24-40	
900	330	695	678	1115			1050			1005		5	37.5			28-34		
1000	410	760	743	1230			1160			1110		5	40			28-37		
1200	470	904	860	1455			1380			1330		5	45			32-40		
1400	530	1060	1010	1675			1590			1535		5	46			36-43		
1600	600	1190	1140	1915			1820			1760		5	49			40-49		
1800	670	1300	1360	2115			2020			1960		5	52			44-49		
2000	760	1420	1485	2325			2230			2170		5	55			48-49		
2200	Upon to request	1560	1617	247	2550		2390	2440		2335	2370	6	56	60		52-43	52-56	
2400		1665	1745	268	2760		2600	2650		2545	2570	6	58	62		56-43	56-56	
2600		1764	1837	290	2960		2810	2850		2750	2780	6	60	64		60-49	60-56	



## Resilient-seated Butterfly Valve Wafer Type

### General:

- Compact Structure: Low flow resistance; flow pattern tend to be straight; low weight; easy to install and maintain; small operation torque, open close 90 ° more smoothly .The valve can be applied to cut off or regulate the flow of media. Valve can be actuated by operating lever, handle wheel, electric actuator or pneumatic actuator.

### Professional Design:

- Disc and stem connected without pin bolts , which insure no inner leakage The sealing surface of disc is spherical shaped,promote the sealing capacity and increase the durability,remain no leakage after opening and closing over 50,000 times.
- Upon request,disc can be coated with Nylon or F46.

### Excellent Corrosion Protection :

- Outside electrostatic epoxy resin powder coating.

### Reliable Health nature :

- Epoxy resin powder is upto the health standard GB/T17219 -1998

### Scope of Application :

- Potable water supply and distribution ,waste water treatment,electric power plan as supply, warm air system,smelting plant,ship buildIding,textile or other light Industry.



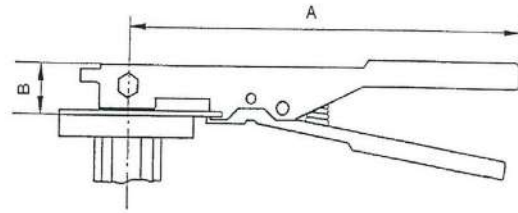




## Resilient-seated butterfly Valve Wafer & Lug Type

- Design standard: DIN3354
- Flange: DIN2501 neq GB/T17241.6 -1998
- Face to face dimensions: DIN3202 ( equal to S05752 )
- Testing standard: DIN3230
- Working temperature: NBR  $\leq 80^{\circ}\text{C}$   
 EPDM  $\leq 120^{\circ}\text{C}$   
 FPM  $\leq 160^{\circ}\text{C}$

■ handle actuator:



■ Technical Characteristic:

Nominal diameter	DN150~1000mm	
Nominal pressure	1.0MPa	1.6MPa
Strength testing	1.5MPa	2.4MPa
Sealing testing	1.1MPa	1.76MPa

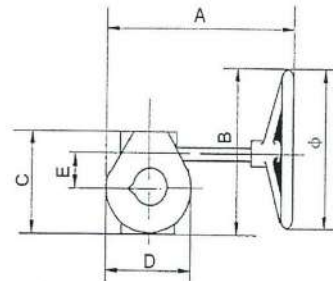
■ Overall dimensions & weights:

DN	A	B	Kg weights
DN50~80	240	32	1.07
Dn100	270	32	1.07
Dn125~150	300	32	1.28
Dn200	355	38	1.9

■ main components and materials:

NO.	name	material
1	Body	gray cast iron, ductile iron, carbon steel
2		plated ductile iron, ductile iron with nylon or polyether chloride coating, plated carbon steel, aluminium bronze, stainless steel
3	seat and line	NR, NBR, EPDM, FPM, SI, CR or PTFE
4	stem	Stainless steel, plated carbon steel, carbon with nylon coating
5	"O"-ring	NBR, EPDM or FPM

■ Single level worm-gear actuator:



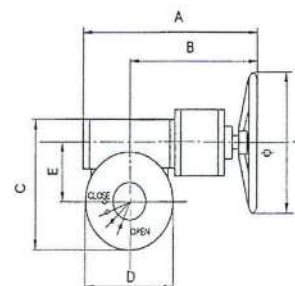
■ Overall dimensions & weights:

DN	A	B	C	D	E	$\phi$	Kg weights
DN50~150	245	115	125	105	53	152	4.2
DN200~250	400	172	117	153	78	220	10.8
DN300~350	400	310	188	162	83	305	14.2
Dn400~450	431	400	280	260	120	350	28.5

■ Overall dimensions & weights:

DN	A	B	C	D	E	$\phi$	Kg weights
DN500~600	488	350	313	276	120	300	50
DN700~800	544	390	372	300	400	400	65

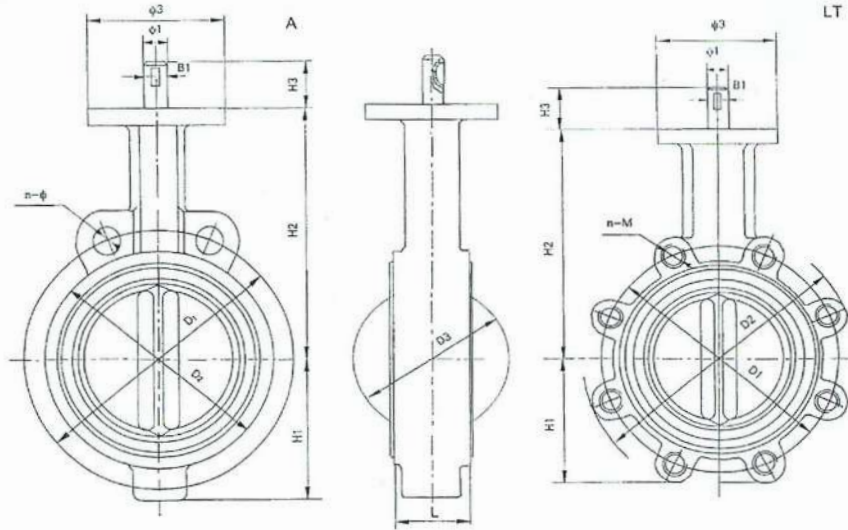
■ Double level worm-gear actuator:







## Resilient-seated butterfly Valve Wafer & Lug Type



SEALING PAIR FITTING MEDIA SHEET

	Material of Sealing pair	Suitable Temperature	Kinds of Media & Suitable Ddgree													Main Feature	Price
			Fresh water	Sea water	Salt	Strong Soda	Light Soda	Strong Acid	Light Acid	Gas	Alcohol	Air	Steam	Oil	Food		
Seat	NBR	-40°C ~ 93°C														Oil Resisting	Lower
	EPDM	-50°C ~ 135°C														Ageing Resisting	Lower
	NR	-20°C ~ 80°C														High Spring	Lower
	CR	-40°C ~ 82°C														Light & Ageing Resisting	Lower
	SI	-65°C ~ 220°C														High Temperature Resisting	High
	FPM	-23°C ~ 204°C														High Temperature & Corrosion Resisting	Very High
	PTFE	-200°C ~ 180°C														Corrosion & High Temperature Resisting	Very High
Disc	Plated Ductile Iron	-30°C ~ 350°C														Heat Resisting	Lower
	Ductile Iron Nylon Coating	-30°C ~ 100°C				②										Corrosion & Wear Resisting, Friction Reducing	Lower
	Ductile Chloropolymer Coating	-30°C ~ 130°C														Wear & Corrosion Resisting	Lower
	Ductile Iron PTFE Coating	-15°C ~ 100°C				③										Wear & Corrosion Resisting	Lower
	Ductile Iron PTFE Coating Aluminum Bronze	-30°C ~ 180°C														Corrosion & Wear Resisting	Very High
	Aluminum Bronze	-273°C ~ 232°C		①												Heat & Corrosion Resisting	High
	Stainless Steel	-268°C ~ 316°C		①												Wear Resisting & Corrosion Resisting	High
	Plated Carbon Steel	-29°C ~ 425°C														Heat Resisting	Lower

VERY SUITABLE
SUITABLE
LIMITED SUITABLE
NOT SUITABLE

### Overall dimensions & weights

Nominal diameter	D1		D2		D3	H1	H2	H3	φ1	φ2	φ3	B1	L	n-φ4	n-M			n-φ		weights	
	1.0 Mpa	1.6 Mpa	type A	type LT											1.0 Mpa	1.6 Mpa	1.0 Mpa	1.6 Mpa	A type	LT type	
40	110		78	104	44	45	108	32	9	50	65	3	33	4-7	4-M16		2-18	2.5	3.5		
50	125		94	157	53	66	140	32	12.6	70	92	3	42	4-10	4-M16		2-18	2.6	3.7		
65	145		112	177	64.8	73	150	32	12.6	70	92	3	44.7	4-10	4-M16		2-18	3.3	4.1		
80	160		121	192	79.3	80	160	32	12.6	70	92	3	45.2	4-10	4-M16	8-M16	2-18	3.6	4.5		
100	180		153	212	104.5	102	180	32	15.78	70	92	5	52.1	4-10	8-M16		2-18	4.9	8.6		
125	210		182	242	123.8	117	190	32	18.95	70	92	5	54.4	4-10	8-M16		2-18	6.9	10.8		
150	240		209	280	156.2	131	200	32	18.95	70	92	5	55.8	4-10	8-M20		2-22	7.5	13		
200	295		262	335	202.9	164	240	45	22.13	89	115	5	60.6	4-14	8-M20	12-M20	2-22	12.7	17		
250	350	355	319	390	250.9	195	270	45	28.48	89	115	8	65.7	4-14	12-M20	12-M24	2-22	17.5	26		
300	400	410	373	445	301.9	236	310	45	31.65	108	140	8	76.5	4-14	12-M20	12-M24	2-22	19.8	38		
350	460	470	408	500	333.7	282	368	45	31.65	108	140	8	76.5	4-14	16-M20	16-M24	2-22	37	54		
400	515	525	488	565	389.6	320	400	51.2	33.15	159	197	10	86.5	4-21	16-M24	16-M27	4-26	59	96		
450	565	585	541	615	440.51	338	422	51.2	38	159	197	10	105.6	4-21	20-M24	20-M27	4-26	77	122		
500	620	650	589	668	491.6	377	480	64.2	41.15	159	197	12	131.8	4-21	20-M24	20-M30	4-26	128	198		
600	725	770	727	780	592.5	425	562	70.2	50.65	216	276	16	152	4-22	20-M27	20-M33	20-30	184	270		
700	840		895		695	520	624	66	55	254	300	16	163	8-18			24-30	284			
800	950		1015		794.7	591	672	66	55	254	300	16	188	8-18			24-33	368			
900	1050		1115		864.7	656	720	118	75	254	300	20	203	8-18			24-33	713			
1000	1160		1230		965	721	800	142	85	254	300	20	216	8-18			34-36	864			



## Swing Check Valve

- Design standard: AWWA A508
- Flange: GB/T17241.61998- neq DIN2501
- Face to face dimensions: 1S057521982-(E) Basic series 10 neq GB12221
- Testing standard: JB/T 9092 -1999
- Working temperature: NBR <= °80C  
EPDM <=°120C  
FPM <=°160C

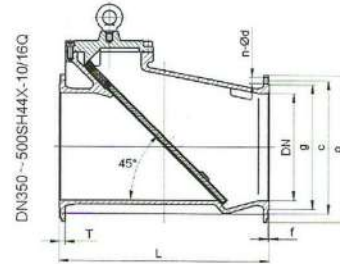
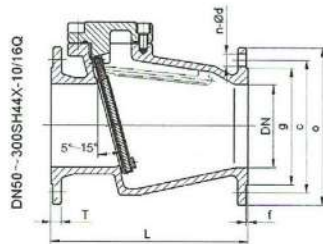
<p><b>General:</b></p> <ul style="list-style-type: none"> <li>• The swing check valve is applied to the horizontal pipelines or the vertical pipelines in which medium flow runs upwards. The backward flowing is effectively stopped. Disk of the damping and swing check valve is connected with two level of damp oil which is outside the valve. It can control the speed and time of valve closing, insures the safety of device. The valve could be widely used in water-supply and drain system.</li> </ul> <p><b>Professional Design:</b></p> <ul style="list-style-type: none"> <li>• To Keep medium pure, the disc is covered by rubber. The reinforced tyre fabrics and soft metal fabrics is inserted to increase the operation fife of disc.</li> <li>• The Disk that is relative to vertical is a certain degree when it is closed. The hole of the body and the disk are ellipse. The channel of the valve is direct. The closing angle is smaller. These insure the safety of the device when the medium is flowing backwards. The cavity space enable the obtaining of maximum area of flow section.</li> <li>• The reasonable open limit and cavity space enable the obtaining of maximum area of flow section. The flow resistance is comparably small and the valve parameter Cv is improved.</li> </ul>	<ul style="list-style-type: none"> <li>• The Disk sprayed with stainless steel and vulcanized with rubbers have double sealing surfaces. Its credibility for seal completely of valve. This is one kind of most advanced seal currently in the world</li> <li>• The valve is opened and closed by the damping oil. The oil device adopts two levels and controlled of damp. When the disk is far from the sealing surface, the oil flow through double pipes, closing fast; When near the sealing surface, the oil flow through single pipe, closing slow. It can avoid the impact of the disk</li> <li>• The design of oil is reasonable. Not equality inside the wall keep the O-seal ring moving back and forth in the oil run completely. The speed of opening and closing valve can be controlled by regulate the needle valve.</li> </ul> <p><b>Excellent corrosion characteristics:</b></p> <ul style="list-style-type: none"> <li>• Internal and external of the body, cover, disk, connect stem, joystick and body of oil run epoxy resin coating.</li> </ul> <p><b>Reliable hygiene principles:</b></p> <ul style="list-style-type: none"> <li>• Epoxy resin and rubber comply with hygiene standard GB/T1998-17219</li> </ul> <p><b>Suitable Application:</b></p> <ul style="list-style-type: none"> <li>• Water supply system, drain system and heating system</li> </ul>
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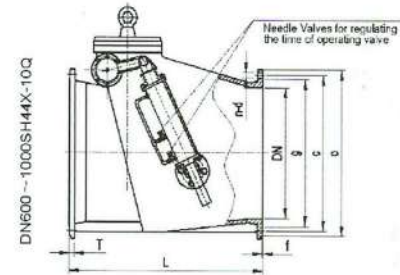


## Swing Check Valve



### Technical Characteristic:

Nominal diameter	DN50~500mm	
Nominal pressure	1.6MPa	1.0MPa
Strength testing	2.4MPa	1.5MPa
Sealing testing	1.76MPa	1.1MPa



### main components and materials:

NO.	name	material
1	body , cover	GGG50 with internal and external epoxy resin coating
2	disc	Q235-A with NBR、EPDM or FPM
3	flange washer	NBR、EPDM or FPM

### Dimensions

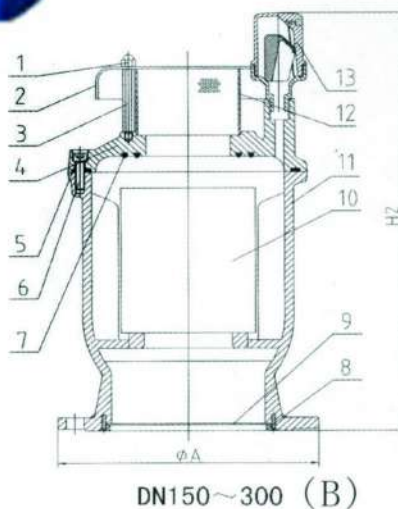
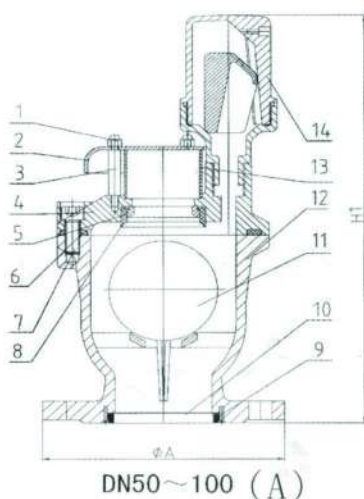
(mm)

DN	L		flange dimensions comply with GB/T17241.6-1998											
	GB12221 BS5150	DIN3202-F6	O		C		g		f	T		n-d		
			1.0 Mpa	1.6 Mpa	1.0 Mpa	1.6 Mpa	1.0 Mpa	1.6 Mpa		1.0 Mpa	1.6 Mpa	1.0 Mpa	1.6 Mpa	
50	203	200	165	165	125	125	99	99	3	19.0	19.0	4-19	4-19	
65	216	240	185	185	145	145	118	118	3	19.0	19.0	4-19	4-19	
80	241	260	200	200	160	160	132	132	3	19.0	19.0	8-19	8-19	
100	292	300	220	220	180	180	156	156	3	19.0	19.0	8-19	8-19	
125	330	350	250	250	210	210	184	184	3	19.0	19.0	8-19	8-19	
150	356	400	285	285	240	240	211	211	3	19.0	19.0	8-23	8-23	
200	495	500	340	340	295	295	266	266	3	20.0	20.0	8-23	12-23	
250	622	600	395	405	350	355	319	319	3	22.0	22.0	12-23	12-28	
300	698	700	445	460	400	410	370	370	4	24.5	24.5	12-23	12-28	
350	787	--	505	520	460	470	429	438	4	24.5	26.5	16-23	16-28	
400	914	--	565	580	515	525	480	489	4	24.5	28.0	16-28	16-31	
450	978	--	615	640	565	585	530	548	4	25.5	30.0	20-28	20-31	
500	978	--	670	715	620	650	582	609	4	25.5	31.5	20-28	20-34	
600	1080	--	780	--	725	--	682	--	5	30.0	30.0	20-31	--	
700	1170	--	895	--	840	--	794	--	5	32.5	32.5	24-31	--	
800	1270	--	975	--	920	--	878	--	5	35.0	35.0	24-31	--	
900	1380	--	1115	--	1050	--	1001	--	5	37.5	37.5	28-34	--	
1000	1500	--	1230	--	1160	--	1112	--	5	40.0	40.0	28-37	--	





## Single Orifice Air Release Valve



SR.NO.	PART NAME	MATERIAL	STANDARD
1	Body	Ductile Iron	ISO 1083
2	Bucket	Ductile Iron	ISO 1083
3	Ball Float	NBR	----
4	Gasket	NYL	---
5	Inside Cover	Ductile Iron	ISO 1083
6	Bolt	Carbon Steel	BS 1769
7	Outside Cover	Ductile Iron	ISO 1083
8	Bolt	Carbon Steel	BS 1769

Dimensions :

DN	A	H1	H2
50	165	102	468
65	165	102	468
80	200	138	468
100	220	158	555
150	285	212	742
200	340	268	850



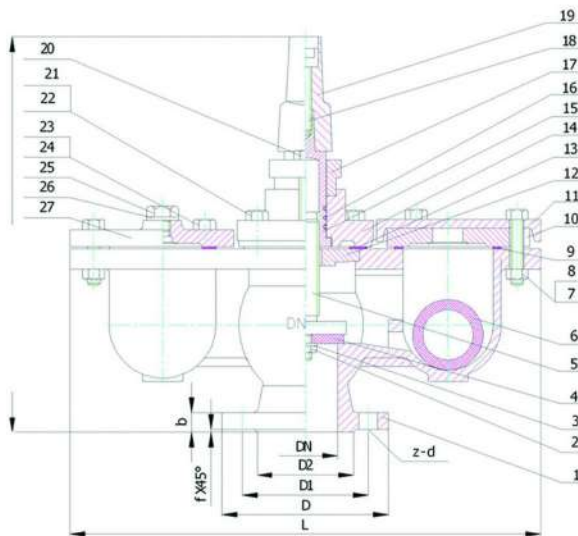
## Double Orifice Air Release Valve

### Main Specialty

Exhaust and inspiration is highly reliable, flexible  
 Light in weight, small in size, and special.  
 streamlined design A hermetic seal is use EPDM  
 rubber to increase of service life

### Technical Parameters:

Inside nominal diameter: DN15-200-mm  
 Working pressure(MPa): 0.02 ~1.6  
 Valve body of resist pressure(MPa): 2.4  
 Valve seat of resist pressure(MPa): 1.76



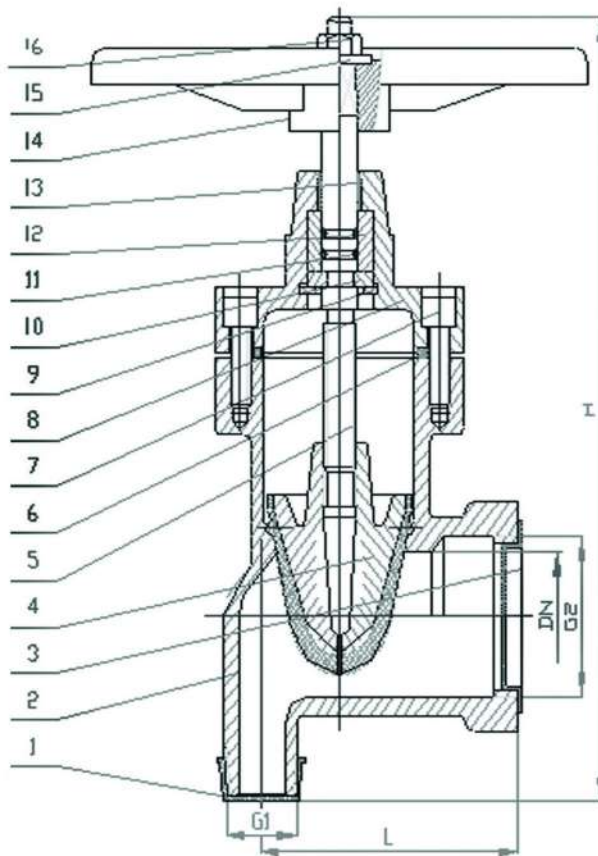
SR. NO.	PART NAME	MATERIAL	STANDARD
1	Body	Ductile Iron	ISO 1083
2	Nut	Carbon Steel	BS 1769
3	Washer	Carbon Steel	BS 1769
4	Gasket	NBR	BS 2494
5	Stem	Stainless Steel	2 CR 13
6	Ball Float	NBR	
7	Bolt	Carbon Steel	BS 1769
8	Nut	Carbon Steel	BS 1769
9	Gasket	NBR	
10	Inside Cover	Ductile Iron	ISO 1083
11	Outside Cover	Ductile Iron	ISO 1083
12	Middle Plank	Ductile Iron	ISO 1083
13	Gasket	NBR	
14	Bonnet	Ductile Iron	ISO 1083
15	Stem Nut	Brass	BS2874 CA 104
16	"O" Ring	NBR	
17	Gland	Ductile Iron	ISO 1083
18	Bolt	Carbon Steel	BS 1769
19	Cap	Ductile Iron	ISO 1083
20	Bolt	Carbon Steel	BS 1769
21	Bolt	Carbon Steel	BS 1769
22	Washer	Carbon Steel	BS 1769
23	Bolt	Carbon Steel	BS 1769
24	Washer	Carbon Steel	BS 1769
25	Bolt	Brass	BS2874 CA 104
26	Washer	NYL	
27	Cover	Ductile Iron	ISO 1083

Dimensions:

DN	D	D1	L	H	Z-d
50	165	125	468	387	4-18
80	200	160	468	387	8-18
100	220	180	555	490	8-18
150	285	240	742	597	8-22
200	340	295	840	679	12-22

## Angle Type Resilient Globe Valve

- Design standard: DIN 3352 part 4 with external thread on inlet and internal thread on outlet
- Testing standard: DIN 3230 part 4
- Working temperature: Less than 80°C Working



SR. NO.	PART NAME	MATERIAL	STANDARD
1	Outside Shield	Nylon	
2	Body	Ductile Iron	ISO 1083
3	Inside Shield	Nylon	
4	Wedge	Ductile Iron	ISO 1083
5	Stem	Stainless Steel	BS 970
6	Gasket	NBR	BS 2494
7	Bonnet Bolt	Carbon Steel	BS 1769
8	Bonnet	Ductile Iron	ISO 1083
9	Fixed Position Turn	Spring Coil Steel	
10	Thrust Collar	Brass	BS 2874 CZ116
11	Ring	NBR	BS 2494
12	Seal Ring	Brass	BS 2874 CZ116
13	Dust Ring	NBR	BS 2494
14	Wheel	Ductile Iron	ISO 1083
15	Washer	Carbon Steel	BS 1769
16	Nut	Carbon Steel	BS 1769

DN	BSP pipe thread		H mm	B mm	C mm	D mm	F mm	Weight Kg
	Internal	External						
25	1"	1 ¼"	180	53	24.5	57.5	13	3.0
32	1 ¼"	2"	190	64	30.0	65.0	13	3.6
40	1 ½"	2"	203	71	35.0	75.0	13	4.9
50	2"	2"	213	80	40.0	90.0	13	5.6





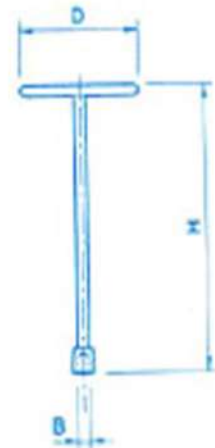
## Extension Spindle for valves



### T-KEY

Material :Epoxy Coated Steel

Valve Size DN	H	D	B
50	602	275	30-33
60-80	1010	325	30-33
100,125,150	1035	475	30-33
200	1200	650	30-33
300	1235	700	30-33



### Spindle Cap for Extension spindle

Material :Epoxy Coated grey cast Iron

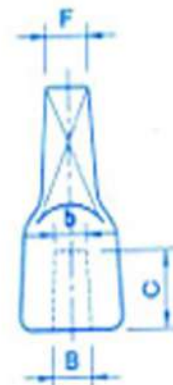
Valve Size DN	B	Square b mm
50-300	30-33	25x25



### Spindle Cap for Gate Valve

Material :

DN	b	B	C	F
50	14	18	30	30-33
60-80	17	21	35	30-33
100,125,150	19	23	40	30-33
200	24	28	45	30-33
250-300	27	31	50	30-33







# TECHNICAL SUPPORT





## Technical support

### 1. Leakage of stuffing

Causes:

1. Incorrect choice of stuffing: does not resist corrosion of medium, high pressure or vacuum of valve, high or low temperature;
2. Incorrect installation of stuffing: use small accessories instead of big ones, bad spiral contact, upper tight & lower loose
3. Stuffing is beyond the lifetime so it is aged and loses elasticity;
4. The valve stem is not enough in precision and has defects of bending, corrosion or abrasion;
5. The stuffing rings are not enough and the press cover is not tight enough;
6. The press cover, bolt or other parts is damaged so that the cover can not be pressed tight;
7. Improper operation;
8. Oblique press cover, or the space between the press cover and the valve stem is too small or too large so that the valve stem is worn and the stuffing is damaged.

#### Prevention and solution:

1. Choose the material and type of stuffing according to the working condition;
2. Install stuffing correctly, and the packing set should be put and pressed ring by ring with 30° or 45° connector;
3. Long-used, aged or damaged stuffing should be replaced in time;
4. Bended or worn valve stem should be corrected and repaired. The seriously damaged should be replaced in time;
5. Stuffing should be installed as the set rings and the cover should be pressed evenly with above 5mm space between;
6. Damaged press cover, bolt and other parts should be repaired or replaced in time;
7. All parts, except for impact type hand wheel, should be operated at normal speed;

### 2. Leakage of seal face

Causes:

1. The seal face is not ground even so that the seal line can not be formed;
2. The connection of the valve stem and the close parts is suspended, skew or worn;
3. The valve stem is bended or incorrectly assembled so that the close parts is skew;
4. Incorrect choice of seal face material or improper choice of valve according to the working condition.



### **Prevention and solution:**

1. Choose correctly the material and type of cushion according to the working condition;
2. Adjust it carefully and operate it stably;
3. Tighten the bolt evenly and equally and use spanner if necessary. There should be certain space between the flange and the screw thread;
4. The cushion should be fixed just in the center without lap joint and double cushions;
5. If the static seal face is corroded, damaged or not processed well, it should be repaired, ground and taken up coloration check;

### **3. Leakage of seal ring connection**

#### **Causes:**

1. The seal ring is not rolled closely;
2. The seal ring is not welded well with the body;
3. The screw thread, bolt and press ring connecting the seal ring are loose;
4. The seal ring connection is corroded.

#### **Prevention and solution:**

1. For leakage of seal rolling, use adhesive and reroll;
2. The seal ring should be rewelded according to the soldering code;
3. Unpack the bolt and the press ring to clean them and replace damaged parts. For seriously corroded parts, repair it by welding and gluing;
4. If the seal ring connection face is corroded, repair it by grinding and gluing. If it cannot be repaired, replace the seal ring.

### **4. Leakage due to falling off of close parts**

#### **Causes :**

1. Incorrect operation makes the close parts jammed and the connection broken;
2. Close parts are not firm in connection and easy to fall off;
3. Choose incorrectly the connection parts material so that it can not resist the medium and mechanical corrosion.

#### **Prevention and solution:**

1. Operate it correctly: do not close the valve with large strength; the valve should not be opened beyond the jammed point; the hand wheel should be reversed a little after the valve is completely open;
2. Connection of the close parts and the valve stem should be firm;
3. Fasteners connecting the close parts and the valve stem should bear medium corrosion and have certain mechanical intensity and wearable performance.



## 5. Leakage of valve body and cover

Causes:

1. Bad cast iron quality causes sand holes, loose tissue, slag inclusion, etc;
2. Crack in bad weather;
3. Bad welding causes slag inclusion, crackle, etc;
4. Cast iron valve is damaged after impact of heavy goods.

### Prevention and solution:

1. Improve casting quality and carry out intensity test before installation strictly as stipulated;
2. Preserve heat of 0° and 0° below valves, and eliminate water in unused valves;
3. Line welding of valve body and cover should be processed according to related
4. Do not put heavy things on the valve. Do not bump the cast iron and nonmetal valve by hand. Use bracket when fixing large-caliber valve.

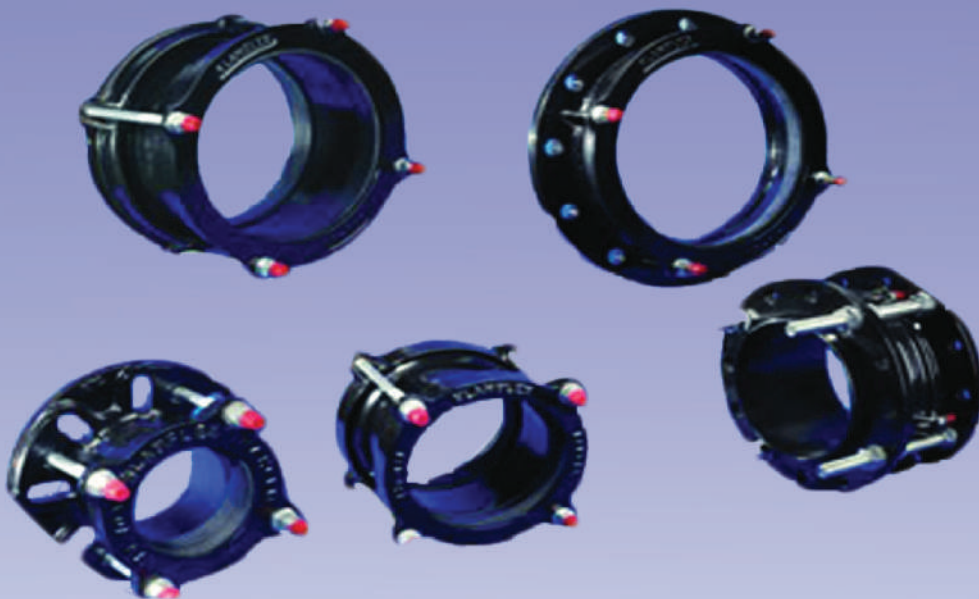
## 6. Common malfunction and solution

Malfunction	Cause	Solution
Seal leakage	(1) Clipped by foreign body. (2) The valve seat is aged and damaged. (3) The butterfly board valve seat is not closed.	(1) Get rid of foreign body. (2) Replace the valve seat. (3) Adjust the executing and driving devices.
Leakage of connection with pipeline flange	(1) The nut is not tightened evenly. (2) The flange seal face is damaged. (3) The cushion is damaged.	(1) Tighten uneven nuts. (2) Repair the flange face. (3) Replace the cushion.
Valve can't be opened or closed.	(1) The appliance connector is not reliable. (2) The component sensitivity is reduced, aged and get damp. (3) The mechanical parts loosen. (4) The air pressure is not enough or leaks.	(1) Check the circuit. (2) Test and replace the component. (3) Check mechanical connecting parts. (4) Check the gas circuit components.
Motor if overheated.	(1) 2-phase motor running. (2) Too long operation time.	(1) Check the circuit. (2) Stop it until the motor is cooled.





# COUPLINGS , ADAPTORS & JOINTS





## Material Specification

### COUPLINGS

Centre Sleeve		
<b>Dedicated</b>		
Up to 140mm OD	Ductile Iron	SABS 936:1969 Grade SG42 BS EN 1563:1997
Over 140mm OD	Rolled Steel	SANS 1431:1987 Grade 300 WA BS EN 10025:2004 Grade S275
<b>Ranger</b>		
Up to 300mm OD (315 -322)	Rolled Steel	SANS 1431:1987 Grade 300 WA BS EN 10025:2004 Grade S275
Over 300mm OD (incl. 322-340)	Ductile Iron	SABS 936:1969 Grade SG42 BS EN 1563:1997
End Ring		
<b>Dedicated</b>		
Up to 328mm OD	Ductile Iron	SABS 936:1969 Grade SG42 BS EN 1563:1997
Over 328mm OD	Rolled Steel	SANS 1431:1987 Grade 300 WA BS EN 10025:2004 Grade S275
<b>Ranger</b>		
Up to 600mm OD	Ductile Iron	SABS 936:1969 Grade SG42 BS EN 1563:1997

### FLANGE ADAPTORS

Flange Adaptor Body		
<b>Dedicated</b>		
Up to 140mm OD	Ductile Iron	SABS 936:1969 Grade SG42 BS EN 1563:1997
Over 140mm OD	Rolled Steel	SANS 1431:1987 Grade 300 WA BS EN 10025:2004 Grade S275
<b>Ranger</b>		
Up to 600mm	Ductile Iron	SABS 936:1969 Grade SG42 BS EN 1563:1997
(315-322mm)	Rolled Steel	SANS 1431:1987 Grade 300 WA BS EN 10025:2004 Grade S275
End Ring		
<b>Dedicated</b>		
Up to 328mm OD	Ductile Iron	SABS 936:1969 Grade Sg42 BS EN 1563:1997
Over 328mm OD	Rolled Steel	SANS 1431:1987 Grade 300 WA BS EN 10025:2004 Grade S275
<b>Ranger</b>		
Up to 600mm OD	Ductile Iron	BS EN 10025:2004 Grade FE430A BS EN 10025:2004
Table Flange		
	Steel Plate	SANS 1431:1987 Grade 300 WA BS EN 10025:2004 Grade S275



## RUBBER COMPRESSION SEALING GASKET: MATERIAL

<b>E.P.D.M</b>	SABS 974:1986 related ISO 4633:1983 BS EN 681-1:1996 Nitrite sealing gaskets available on request.
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Certified Non Toxic for use on potable water distribution systems in accordance with BS 6920 (WRAS)

## BOLTS: MATERIAL

<b>LOW Carbon Unalloyed Steel</b>	SABS 1143:1977 Grade 4.8 (8.8 for higher pressure) BS 970-1:1996
<b>Hot Dipped Galvanised</b>	SABS 763:1988 BS EN ISO 1461:1999
<b>Electro Galvanised</b>	BS EN 12329:2000/ BS EN 12330:2000
<b>Stainless Steel</b>	Available on request

## NUTS: MATERIAL

<b>LOW Carbon Unalloyed Steel</b>	SABS 135:1991 BS 970-1:1996
<b>Electro Galvanised</b>	BS EN 12329:2000/ BS EN 12330:2000
<b>Hot Dipped Galvanised</b>	BS 729:1986

## STUDS: MATERIAL

<b>Carbon Steel</b>	BS 970-1:1996
<b>Stainless Steel</b>	Available on request

## LOCATING CENTER REGISTER

<b>Removable Centre Register</b>	Mild Steel Cadmium Plated
<b>Fixed Centre Register</b>	Mild Steel

## HARNESS LUGS

<b>Steel Plate</b>	SANS 1431:1987 Grade 300 WA BS EN 10025:2004 Grade S275
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## HARNESS / RESTRAINED FLANGE ADAPTOR TIE ROD BOLTS

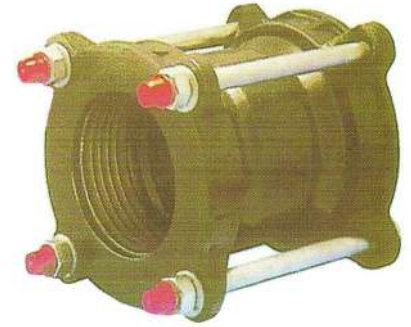
<b>Carbon Steel Bar</b>	SANS 1431:1987 Grade 300 WA BS 970-1:1996 Grades 4.8 or 8.8 Dependant on Pressure
<b>Coating</b>	Uncoated or Electro-galvanised zinc to BSEN 12329:2000/ BSEN 12330:2000
<b>Stainless Steel</b>	Available on request

## SPECIALISED COATINGS



## RANGER COUPLING

SUITABLE FOR JOINING PIPES OF SIMILAR OR DISSIMILAR MATERIALS WITHIN THE O.D. RANGE. USE AS A STRAIGHT COUPLING, OR IN PLACE OF A STEPPED COUPLING WITHIN THE O.D. RANGE .



## RANGER FLANGE ADAPTOR

THE FLANGER DRILLING TYPES COVERED BY RANGER ADAPTORS INCLUDE:

BS 4504: 1989: PN 10 AND PN 16

SABS 1123: 10003/ AND 1600/ 3

BS 10: 1962: TABLED AND E

ANSI: B16.516.2

ASA: 1501b







## RANGER COUPLING

SUITABLE FOR JOINING PIPES OF SIMILAR OR DISSIMILAR MATERIALS WITHIN THE O.D. RANGE.  
USE AS A STRAIGHT COUPLING, OR IN PLACE OF A STEPPED COUPLING WITHIN THE O.D. RANGE

NOM. BORE	PIPE O.D. RANGE	PIPE MATERIAL SUITABILITY
50mm/2"	59-72 mm	STEEL (imperial+metric), UPVC, DI, CI, AC (imperial), ABS/DWV
65mm/2.5"	72-85mm	STEEL (imperial+metric), UPVC, DI, CI, AC (imperial), ABS/DWV
80mm/3"	88-103 mm	STEEL (imperial+metric), UPVC, DI, CI, AC (imperial), ABS/DWV
100mm/4"	109-128 mm	STEEL (imperial+metric), UPVC, DI, CI, AC (cod), AC (imperial)
125mm/5"	138-153 mm	STEEL (imperial+metric), UPVC, DI, CI, AC (cod), AC (imperial)
150mm/6"	159-182 mm	STEEL (imperial+metric), UPVC, DI, CI, AC (cod), AC (cid), AC (imperial)
175mm/7"	192-210 mm	STEEL (imperial+metric), UPVC, CI, AC (imperial)
200mm/8"	218-235 mm	STEEL (imperial+metric), UPVC, DI, CI, AC (cod), AC (cid), AC (imperial), GRP
225mm/9"	230-247 mm	STEEL (imperial+metric), DI, AC (cod), AC (cid), AC (imperial)
250mm/10"	250-267 mm	STEEL (imperial+metric), UPVC, AC (cid)
250mm/10"	272-289 mm	STEEL (imperial+metric), UPVC, DI, CI, AC (cod), AC (cid), AC (imperial), GRP
300mm/12"	315-332 mm	STEEL (imperial+metric), UPVC, DI, AC (cid 24), GRP
300mm/12"	322-340 mm	STEEL (imperial+metric), DI, AC Class 12
350mm/14"	374-391 mm	DI, GRP, AC Class 6
400mm/16"	417-437 mm	DI, AC Class 6 and 12
450mm/18"	480-500 mm	DI, AC Class 6 and 12, UPVC
500mm/20"	526-546 mm	DI, AC Class 6 and 12
600mm/24"	630-650 mm	DI, AC Class 6, Imperial CI/CL



MAX WORKING PRESSURE: 16 BAR • SETTING GAP: 19mm • TOLERANCE ON ANGULAR DEFLECTION: 6 DEGREES • EXPANSION AND CONTRACTION RANGE: 0-10 mm • RECOMMENDED BOLT TORQUE: 60-80 mm

## RANGER FLANGE ADAPTOR

NOM. BORE	PIPE O.D. RANGE	FLANGE DRILLING COMPATIBILITY
50mm/2"	59-72 mm	50mm: BS 10 Table D,E, & F: ANSI 150: BS4504: 6/3, 10/3, 16/3. SABS 1123: 600/3, 1000/3, 1600/3
65mm/2.5"	72-85 mm	65mm: BS 10 Table F: BS4504:10/3, 16/3: SABS 1123:1000/3, 1600/3
80mm/3"	88-103 mm	80mm: BS 10 Table D,E, & F: ANSI 150: BS4504: 6/3, 10/3, 16/3. SABS 1123: 600/3, 1000/3, 1600/3
100mm/4"	109-128 mm	100mm: BS 10 Table D,E, & F: ANSI 150: BS4504:10/3, 16/3. SABS 1123: 1000/3, 1600/3
125mm/5"	138-153 mm	125mm: BS 10 Table D,E, & F: ANSI 150: BS4504: 6/3, 10/3, 16/3. SABS 1123: 600/3, 1000/3, 1600/3.
150mm/6"	159-182mm	150mm: BS 10 Table D & E: ANSI 150: BS4504: 10/3, 16/3. SABS 1123: 1000/3, 1600/3.
175mm/7"	192-210 mm	200mm: BS 10 Table D & E: ANSI 150: BS4504: 10/3, 16/3. SABS 1123: 1000/3, 1600/3.
200mm/8"	218-235 mm	200mm: BS 10 Table D & E: ANSI 150: BS4504: 10/3, 16/3. SABS 1123: 1000/3, 1600/3.
250mm/10"	250-267 mm 272-289 mm	250mm: BS 10 Table E: BS4504: 10/3, 16/3. SABS 1123: 1000/3, 1600/3.
300mm/12"	315-332 mm	To customer specifications
300mm/12"	322-340mm	PN 10, PN 16, TABLE E, ANSI 150 lb
350mm/14"	374-391 mm	PN 10, PN 16
400mm/16"	417-437 mm	PN 10, PN 16
450mm/18"	480-500 mm	PN 10,PN 16
500mm/20"	526-546 mm	PN 10, PN 16, ANSI 150 lb
600mm/24"	630-650 mm	PN 10, PN 16, ANSI 150 lb



MAX WORKING PRESSURE: 16 BAR • SETTING GAP: 19mm • TOLERANCE ON ANGULAR DEFLECTION: 3 DEGREES • EXPANSION AND CONTRACTION RANGE: 0-5 mm • RECOMMENDED BOLT TORQUE: 60-80 mm



## STEPPED RANGER COUPLINGS

Stepped Ranger Couplings are designed to join pipes of various outside diameters with different nominal bores.

Stepped Ranger Couplings can connect steel, ductile iron, UPVC, cast iron, asbestos cement and other rigid pipe materials.

Corrosion protection is available in Fusion Bonded Epoxy and Red Oxide Primer as standard. Optional coatings to meet specifications are available on request.

Gasket material is EPDM and designed to provide a leak tight seal across the O.D. range allowing for thermal expansion and contraction of the pipe. It is strongly recommended that the rubber sealing gaskets are well lubricated with a suitable non toxic soap solution before the introduction of the pipe.

This practice will obviate the need for re-tightening the fasteners after pressure testing, and further facilitate the seating of the joint components.



NOMINAL BORE (MM)	IPE OD RANGE (MM)
<b>50mm/65</b>	<b>59-72 / 72-85</b>
<b>80mm/100</b>	<b>88-103 / 109-128</b>
<b>100mm/125</b>	<b>109-128 / 138-151</b>
<b>125mm/150</b>	<b>135-153 / 159-182</b>
<b>150mm/175</b>	<b>159-210 / 192-210</b>
<b>175mm/200</b>	<b>192-210 / 218-235</b>
<b>200mm/200+</b>	<b>218-232 / 230-247</b>
<b>250mm/250+</b>	<b>250-267 / 272-289</b>







## STRAIGHT COUPLINGS

### for Di , steel ,UPVC , Ci , AC , GRP pipe

Straight couplings join pipes of the same outside diameter in the current production range from 50 - 2700mm. The couplings can be manufactured to both imperial and metric dimensions in any size within the product range. Straight couplings are suitable for virtually all rigid pipe materials. Contact us for any special requirements such as long sleeves, special fasteners, coatings, etc.

ISO2531:2000/BSEN545:2000



### STRAIGHT COUPLINGS

The sizes shown in the schedules of dimensions are for guide purposes. Couplings manufacturing methods enable us to supply any size, including non-standard sizes. Couplings are pressure rated to the appropriate pipe standards. Working pressure is generally two-thirds of maximum test pressure shown in the schedules of dimensions. These pressures apply to a buried line with adequate thrust blocks or to pipelines above ground anchored at ends at all changes of direction also secured against side thrusts at each joint. Sealing rings are of a natural rubber and are suitable for water and sewerage services, chemicals and dilute acids in the temperature range — 50.to +65. Other sealing materials can be used, increasing temperature range to greater than 100. These materials are available on request.

### PIPE MOVEMENT

Couplings, though capable of accommodating reasonable expansion and contraction, do not mechanically prevent separation of pipe ends subject to end thrust, and this must be prevented by other means. To prevent separation of pipe ends, harness assemblies consisting of lugs for welding to adjacent pipes, and connecting tie rods can be supplied. Pipes must be anchored against end load, particularly when the pipeline is laid above ground. A buried pipeline normally needs anchoring only at abrupt changes in direction and at junctions or stop ends.

### EXPANSION AND CONTRACTION

Each Coupling will accommodate maximum pipe movement of 9,5mm and each flange adaptor 4,8mm. This is achieved by deformation of the sealing ring, not by a sliding action of the ring on the pipe. This will cater for expansion and contraction resulting from temperature variations, experienced under normal atmospheric conditions. The resistance to pipe end separation offered by couplings is dependant upon the number of variable installation factors such as pipe surfaces, pipe tolerance, coupling component tolerances. etc. and is thus different for every case. For complete safety it is advisable to assume that the worst conditions prevail for each installation .

### BOLTS

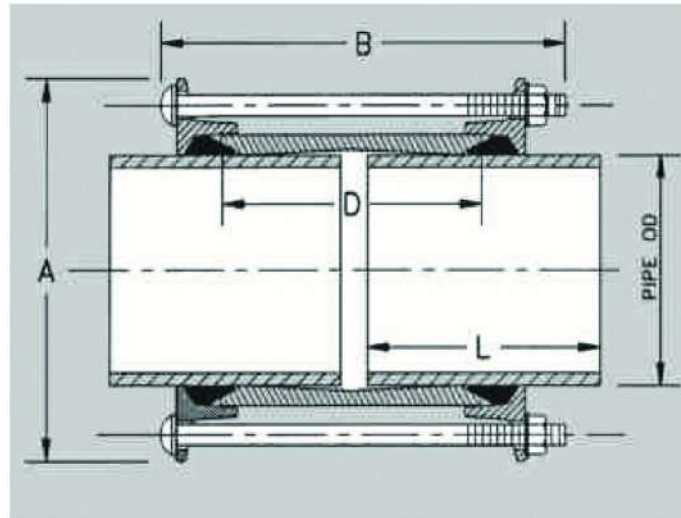
Galvanised bolts are supplied as standard.  
Stainless steel bolts are available at extra cost.

### RECOMMENDED BOLT TORQUE

Couplings up to 324mm OD M12 bolts - 6580-Nnt  
Couplings over 324mm OD M16 bolts - 95120-Nm.

### CENTRE REGISTERS

The centre sleeve can be supplied with or without internal centre register studs. The registers provide a locating stop to centre the coupling which facilitates the laying of long pipe runs. Centre registers also prevent the possibility of the coupling creeping at positions where there are continual axial movements. Couplings without centre register are necessary for fitting closing lengths on a pipeline, or for withdrawing any particular length for cleaning or inspection. Locating plugs may be fitted to couplings to act as removable centre registers, thus providing the advantage of both types.



For DI,STEEL,UPVC,CI,AC,GRP PIPE

ISO 2531 : 2000/BSEN 545 : 2000

## STRAIGHT COUPLINGS

DUCTILE IRON PIPE ISO 2531 : 1991 BS 4772 : 1988

FOR 10 & 16 BAR WORKING PRESSURE

NOM BORE	PIPE OD	TOLERANCE ON PIPE OD FOR PREPARED END		MINIMUM PIPE END PREPARED LENGTH	OD OF ENDRING	COUPLING LENGTH	SLEEVE WIDTH	STANDARD TEST PRESSURE AT:	
								10 bar working pressure	16 bar working pressure
mm	mm	mm	mm	L	A	B	D		
80	98	+1.0	-3.0	100	158	178	102	15	24
100	118	+1.0	-3.0	100	200	178	102	15	24
125	141	+1.0	-3.0	100	220	178	102	15	24
150	170	+1.0	-3.0	100	260	178	102	15	24
200	222	+1.0	-3.5	100	308	178	102	15	24
250	274	+1.0	-3.5	100	364	178	102	15	24
300	326	+1.0	-3.5	100	414	178	102	15	24
350	378	+1.0	-3.5	150	480	262	178	15	24
400	429	+1.0	-4.0	150	531	262	178	15	24
450	480	+1.0	-4.0	150	582	262	178	15	24
500	532	+1.0	-4.0	150	634	262	178	15	24
600	635	+1.0	-4.5	150	737	262	178	15	24
700	738	+1.0	-4.5	150	840	262	178	15	24
800	842	+1.0	-4.5	150	944	262	178	15	24
900	945	+1.0	-5.0	150	1047	262	178	15	24
1000	1048	+1.0	-5.0	150	1150	262	178	15	24
1100	1152	+1.0	-6.0	150	1268	262	178	15	24
1200	1255	+1.0	-6.0	150	1371	262	178	15	24
1400	1468	+1.0	-6.0	150	1578	262	178	15	24
1600	1668	+1.0	-6.0	150	1784	262	178	15	24
1800	1875	+1.0	-6.0	150/ 300	1989	262/ 450	178/356	15	24
2000	2082	+1.0	-6.0	150/ 300	2196	262/ 450	178/ 356	15	24

FOR COUPLINGS OF 25 AND 40 BAR WORKING PRESSURE PLEASE CONTACT US





For DI,STEEL,UPVC,CI,AC,GRP PIPE

ISO 2531 : 2000/BSEN 545 : 2000

## STRAIGHT COUPLINGS DUCTILE IRON PIPE ISO 2531 : 1991 BS 4772 : 1988

FOR 10 & 16 BAR WORKING PRESSURE

NOM BORE	PIPE OD	TOLERANCE ON PIPE OD FOR PREPARED END		MINIMUM PIPE END PREPARED LENGTH	OD OF ENDRING	COUPLING LENGTH	SLEEVE WIDTH	STANDARD TEST PRESSURE AT:	
								10 bar working pressure	16 bar working pressure
mm	mm	mm	mm	L	A	B	D		
50	60.3	+0.8	-0.8	100	134	178	83	15	24
65	76.1	+0.8	-0.8	100	150	178	102	15	24
80	88.9	+0.8	-0.8	100	158	178	102	15	24
100	114.3	+0.8	-0.8	100	174	178	102	15	24
125	139.7	+1.6	-0.8	100	220	178	102	15	24
150	165.1	+1.6	-0.8	100	246	178	102	15	24
150	168.3	+1.6	-0.8	100	246	178	102	15	24
200	219.1	+1.6	-0.8	100	308	178	102	15	24
225	244.5	+1.6	-0.8	100	338	178	102	15	24
250	267	+1.6	-0.8	100	360	178	102	15	24
250	273	+1.6	-0.8	100	364	178	102	15	24
300	323.9	+1.6	-0.8	100	414	178	102	15	24
350	355.6	+1.6	-1.6	150	458	262	178	15	24
400	406.4	+1.6	-1.6	150	509	262	178	15	24
450	457	+1.6	-1.6	150	559	262	178	15	24
500	508	+1.6	-1.6	150	610	262	178	15	24
550	559	+1.6	-1.6	150	661	262	178	15	24
600	609.6	+1.6	-1.6	150	712	262	178	15	24
650	660	+1.6	-1.6	150	762	262	178	15	24
700	711.2	+1.6	-1.6	150	814	262	178	15	24
750	762	+1.6	-1.6	150	864	262	178	15	24
800	812.8	+1.6	-1.6	150	915	262	178	15	24
850	864	+1.6	-1.6	150	966	262	178	15	24
900	914.4	+1.6	-1.6	150	1017	262	178	15	24
950	965	+1.6	-1.6	150	1067	262	178	15	24
1000	1016	+1.6	-1.6	150	1118	262	178	15	24
1050	1067	+1.6	-1.6	150	1169	262	178	15	24
1100	1118	+1.6	-1.6	150	1220	262	178	15	24
1200	1219	+1.6	-1.6	150	1335	262	178	15	24
1200	1235	+1.6	-1.6	150	1351	262	178	15	24
1400	1420	+1.6	-3	150	1536	262	178	15	24
1400	1422	+1.6	-3	150	1538	262	178	15	24
1500	1520	+1.6	-3	150	1636	262	178	15	24
1600	1620	+3	-3	150	1736	262	178	15	24
1600	1626	+3	-3	150	1742	262	178	15	24
1800	1820	+3	-3	150	1936	262	178	15	24
1800	1829	+3	-3	150	1945	262	178	15	24
2000	2020	+3	-3	150/ 300	2134	262/ 450	178/ 356	15	
2100	2120	+3	-3	150/ 300	2234	262/ 450	178/ 356	15	
2200	2230	+3	-3	150/ 300	2344	262/ 450	178/ 356	15	
2400	2440	+3	-3	150/ 300	2554	262/ 450	178/ 356	15	
2700	2740	+3	-3	150/ 300	2854	262/ 450	178/ 356		

FOR COUPLINGS OF 25 AND 40 BAR WORKING PRESSURE PLEASE CONTACT US





## STRAIGHT COUPLINGS

**uPVC PIPES : SABS 966 : 1976 ISO 161 : 1978**

**FOR 10 & 16 BAR WORKING PRESSURE**

NOM BORE	PIPE OD	TOLERANCE ON PIPE OD FOR PREPARED END		MINIMUM PIPE END PREPARED LENGTH	OD OF ENDRING	COUPLING LENGTH	SLEEVE WIDTH	STANDARD TEST PRESSURE AT:	
								10 bar working pressure	16 bar working pressure
mm	mm	mm		L mm	A mm	B mm	D mm		
100	110	+1.0	-1.0	100	163	178	102	15	24
140	140	+1.0	-1.0	100	220	178	102	15	24
160	160	+1.0	-1.0	100	242	178	102	15	24
175	177.8	+1.0	-1.0	100	267	178	102	15	24
180	180	+1.0	-1.0	100	267	178	102	15	24
200	200	+1.0	-1.0	100	289	178	102	15	24
225	225	+1.0	-1.0	100	318	178	102	15	24
250	250	+1.0	-1.0	100	343	178	102	15	24
280	280	+1.0	-1.0	100	373	178	102	15	24
315	315	+1.0	-1.0	100	408	178	102	15	24
400	400	+1.0	-1.0	150	502	262	178	15	24
500	500	+1.0	-1.0	150	602	262	178	15	24

**FOR COUPLINGS OF 25 AND 40 BAR WORKING PRESSURE PLEASE CONTACT US**

THE ABOVE TABLE INCLUDES SAMPLES OF THE SIZES AVAILABLE, PLEASE CONTACT US FOR ANY OTHER SIZES UP TO 2000MM. WE RESERVE THE RIGHT TO CHANGE DIMENSIONS WITHOUT FURTHER NOTICE.

## STRAIGHT COUPLINGS

**FIBRE CEMENT PIPE FOR COD AND CID PIPE : SABS 1223 : 1985 ISO 160 : 1980**

**FOR 10 & 16 BAR WORKING PRESSURE**

NOM BORE	PIPE OD	TOLERANCE ON PIPE OD FOR PREPARED END		MINIMUM PIPE END PREPARED LENGTH	OD OF ENDRING	COUPLING LENGTH	SLEEVE WIDTH	STANDARD TEST PRESSURE AT:	
								10 bar working pressure	16 bar working pressure
mm	mm	mm		L mm	A mm	B mm	D mm		
50	96	+0.6	-0.0	100	158	178	102	15	24
100	122	+0.6	-0.0	100	200	178	102	15	24
150	168	+0.6	-0.0	100	246	178	102	15	24
150	177	+0.6	-0.0	100	267	178	102	15	24
250	286	+0.6	-0.0	100	379	178	102	15	24
300	328	+0.6	-0.0	100	421	178	102	15	24
300	340	+1.0	-0.0	150	442	262	178	15	24
300	345	+1.0	-0.0	150	442	262	178	15	24
600	667	+1.0	-0.0	150	769	262	178	15	24
600	699	+1.0	-0.0	150	801	262	178	15	24
600	727	+1.0	-0.0	150	829	262	178	15	24
600	755	+1.0	-0.0	150	857	262	178	15	24
1100	1188	+1.2	-0.0	150	1304	262	178	15	24

**FOR COUPLINGS OF 25 AND 40 BAR WORKING PRESSURE PLEASE CONTACT US**

# Stepped Coupling

## For DI , Steel , UPVC , CI , GRP PIPE

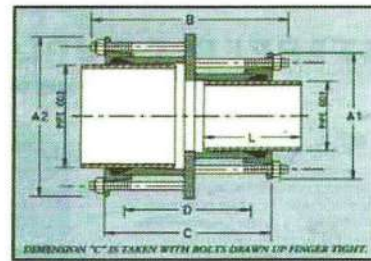
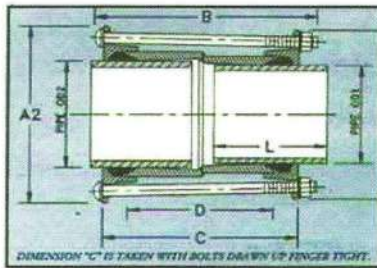
ISO2531:2000/BSEN545:2000

Where pipe ends of different outside diameters have to be connected, stepped couplings can be provided. The range is extensive and covers a vast array of pipe sizes and materials. The jointing of dissimilar materials, requiring different fastener torque values, is facilitated by the inclusion of a profile plate.



### Pipe Movement

It is advisable to mark the pipe a known distance from the end when fitting a step coupling to enable inspection of movement. This will allow the inspector to ensure that no telescoping along the smaller diameter pipe has occurred.



STEP COUPLINGS - FABRICATED											
SABS 719:1971 SABS:966 ISO 2531:1991 SABS 1223:1985 SABS 62:1989 ISO 161:1978 BS4772:1988 ISO 160:1980 BS534:1990											
NOM BORE PIPE1 mm	NOM BORE PIPE2 mm	PIPE OD1 mm	PIPE2 OD2 mm	DESCRIPTION	L MIN mm	A1 mm	A2 mm	B mm	C mm	D x AVERAGE THICKNESS mm	MAX TEST PRESSURE MPa
50	65	60.3	76.1	STEEL/STEEL	100	133	148	172	145	102 x 6.4	6.8
140	160	140	160	uPVC/uPVC	100	224	246	172	145	102 x 7.2	6.1
200	200	200	219	uPVC/STEEL	100	292	311	172	148	102 x 8.7	5.8
315	300	315	324	uPVC/STEEL	100	407	419	172	148	102 x 8.7	4.7
300	300	353	365	FC30/FC24	120	458	470	260	230	178 x 8.7	4.3
600	600	651	672	FC18/FC12	140	756	777	260	230	178 x 8.7	2.5
700	700	760	784	FC18/FC12	140	875	889	260	238	178 x 11.1	3.6
1000	1000	1062	1048	FC12/FC06	160	1177	1199	260	238	178 x 11.1	2

STEP COUPLINGS -PROFILE PLATE											
SABS 719:1971 SABS:966 ISO 2531:1991 SABS 1223:1985 SABS 62:1989 ISO 161:1978 BS4772:1988 ISO 160:1980 BS534:1990											
NOM BORE PIPE1 mm	NOM BORE PIPE2 mm	PIPE OD1 mm	PIPE OD2 mm	DESCRIPTION	L MIN mm	A1 mm	A2 mm	B mm	C mm	D mm	MAX TEST PRESSURE MPa
65	80	76.1	96	STEEL/FC	100	148	170	188	155	110	6.8
160	150	160	174	uPVC/FC18	100	246	266	190	157	112	5.8
150	200	177	232	FC/FC	100	270	324	190	158	112	5.4
250	250	273	318	STEEL/FC36	100	367	410	190	158	112	4.7
355	350	355	378	uPVC/DI	120	460	483	270	240	188	4.3
600	600	610	672	STEEL/FC18	150	714	776	270	240	188	2.5
700	750	711	762	STEEL/DI	150	815	877	270	244	188	2.4
1100	1100	1118	1188	FC/STEEL	160	1233	1303	276	254	194	1.9





## FLANGE ADAPTORS

**For DI , Steel , UPVC , CI , GRP PIPE**

**ISO2531:2000/ BSEN545:2000**

Covering a similar range to the Straight Coupling, CJM Flange Adaptors are manufactured to join plain ended pipe to flanged valves, fittings, flow meters and pipes. Flange drillings are available to all international standards or to customer specifications. Flange Adaptors are manufactured to join plain-ended pipe to flanged valves, fittings and pipes, obviating difficulties usually experienced with rigid connections. When ordering Flange Adaptors the following information is required to avoid the possibility of error in flange selections:

Pipe outside diameter.

Nominal bore of the flanged fitting.

Table drilling with standard applicable.

Thickness of flanges will not necessarily be the same as that of the mating flange. Flanges and flange adaptors will not be subject to full end or side thrust, most of which is absorbed by the flexibility in the rubber seals. Pipe ends should be smooth, with no seams, score marks, dents or ovality beyond those detailed in BS534 -1990. (See technical data.)

### RECOMMENDED SETTING GAPS

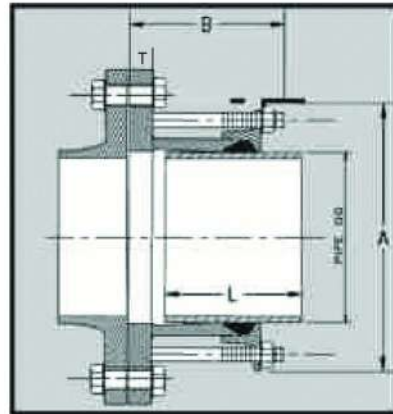
18mm for sizes up to and including 324mm OD. 32mm for sizes over 324 OD. (See Technical Data: Setting Gaps for more information)

### STUD TORQUES

- Flange adaptors up to 324mm OD
- M12 studs - 6580-Nm.
- Flange adaptors over 324mm OD
- M16 studs - 95120-Nm.
- Stepped Flange Adaptors are also available to accommodate large changes in pipe outside diameter







For DI,STEEL,UPVC,CI,AC,GRP PIPE

ISO 2531 : 2000/BSEN 545 : 2000

**FLANGE ADAPTORS : STEEL PIPES**  
**FLANGES DRILLED PN10 OR PN16, 1000/3 OR 1600/3 (BS10: A,D,E)**  
**AND ANSI 125/ 150**

NOM BORE	PIPE OD	TOLERANCE ON PIPE OD FOR DISTANCE L		MINIMUM LENGTH PREPARED PIPE END	OD OF ENDRING	FLANGE ADAPTOR LENGTH	TABLE FLANGE THICKNESS
				L	A	B	T
mm	mm	mm		mm	mm	mm	mm
50	60.3	+0.8	-0.8	100	134	152	12
65	76.1	+0.8	-0.8	100	150	102	12
80	88.9	+0.8	-0.8	100	165	102	12
100	114.3	+0.8	-0.8	100	191	102	12
125	139.7	+1.6	-0.8	100	220	104	14
150	165.1	+1.6	-0.8	100	246	106	16
150	168.3	+1.6	-0.8	100	246	106	16
200	219.1	+1.6	-0.8	100	308	106	16
250	267	+1.6	-0.8	100	360	109	19
250	273	+1.6	-0.8	100	364	109	19
300	323.9	+1.6	-0.8	100	414	109	19
350	355.6	+1.6	-1.6	150	458	153	23
400	406.4	+1.6	-1.6	150	509	154	24
450	457	+1.6	-1.6	150	559	154	24
500	508	+1.6	-1.6	150	610	155	25
600	610	+1.6	-1.6	150	712	155	25
700	711	+1.6	-1.6	150	813	155	25
800	813	+1.6	-1.6	150	915	155	25
900	914	+1.6	-1.6	150	1016	155	25
1000	1016	+1.6	-1.6	150	1118	157	27
1200	1219	+1.6	-1.6	150	1335	165	35
1400	1420	+1.6	-3	150	1536	175	45
1600	1620	+3	-3	150	1736	190	60
1800	1820	+3	-3	150	1936	190	60
2000	2020	3	-3	150/ 300	2134	190/ 290	60
2000	2032	3	-3	150/ 300	2146	190/ 290	60

FOR ADAPTORS OF 25 AND 40 BAR WORKING PRESSURE PLEASE CONTACT US



For DI,STEEL,UPVC,CI,AC,GRP PIPE

ISO 2531 : 2000/BSEN 545 : 2000

**FLANGE ADAPTORS: DUCTILE IRON PIPES  
FLANGES DRILL ED PN10 OR PN16, 1000/3 OR 1600 3 (BS10: A,D,E)  
AND ANSI 125/ 150**

NOM BORE	PIPE OD	TOLERANCE ON PIPE OD FOR DISTANCE L		MINIMUM LENGTH PREPARED PIPE END	OD OF ENDRING	FLANGE ADAPTOR LENGTH	TABLE FLANGE THICKNESS
mm	mm	mm		mm	mm	mm	mm
100	118	+1.0	-3.0	100	200	102	12
150	170	+1.0	-3.0	100	260	106	16
200	222	+1.0	-3.5	100	308	106	16
250	274	+1.0	-3.5	100	364	109	19
300	326	+1.0	-3.5	100	414	109	19
350	378	+1.0	-3.5	150	480	153	23
400	429	+1.0	-4.0	150	531	154	24
450	480	+1.0	-4.0	150	582	154	24
500	532	+1.0	-4.0	150	634	155	25
600	635	+1.0	-4.5	150	737	155	25
700	738	+1.0	-4.5	150	840	155	25
800	842	+1.0	-4.5	150	944	155	25
900	945	+1.0	-5.0	150	1047	155	25
1000	1048	+1.0	-5.0	150	1150	157	27
1200	1255	+1.0	-6.0	150	1371	165	35
1400	1462	+1.0	-6.0	150	1578	175	45
1600	1668	+1.0	-6.0	150	1784	190	60
1800	1875	+1.0	-6.0	150	1989	190	60
2000	2082	+1.0	-6.0	150/300	2196	190/290	60

FOR ADAPTORS OF 25 AND 40 BAR WORKING PRESSURE PLEASE CONTACT US



## FLANGE ADAPTORS

For DI , Steel , UPVC , CI , GRP PIPE



### MATERIAL

BODY:DUCTILE CAST IRON OR CAST BRONZE 855%-5- STRAPS & NUTS-MILD STEEL,ZINC PLATED OR STAINLESS STEEL NO304 GASKET:NEOPRENE OR EPDM,5055-SHORE,RESISTANT TO OIL,ACID,NATURAL GAS AT TEMPERATURE UP TO225°F

### COATING

STANDARD COATING: RED OXIDE PRIMER,OR TAR EPDXY HOT DIP GALVANIZED,FUSION-BONDED EPDXY AND RILSAN NYLON II COATING ALSO AVAILABLE.

### Features :

• WIDE RANGE OF FIT -CJM SERVICE & WATER WORKS SADDLES ARE DESIGNED FOR USE ON AC PIPE, CAST CR DUCTILE IRON PIPE OR STEEL PIPE

- DOUBLE OR SINGLE STRAP CONSTRUCTION.
- STRAPS HAVE COLD ROLLED THREADS FOR EXTRA STRENGTH AND DURABILITY
- WIDE RANGE OF TAP SIZES -SADDLES ARE AVAILABLE WITH 2/1 THRU 2" IPT AND BSPT OR CORPORATION TAP SIZES.

Lightweight/LOW COST -SADDLES ARE RUGGEDLY CONSTRUCTED OF HIGH GRADE DUCTILE IRON OR BRONZE FOR STRENGTH AND LASTING PERFORMANCE. THIS CONSTRUCTION SAAURES LIGHTWeight HANDL ING FOR EASY.

Low COST INSTALLATION. OREN SLOT ON ONE SIDE FOR Fantasy INSTALLATION. MASSIVE -ORING PROVIDES PRIMARY SEAL Time-PROVEN DESIGN. SELF-SEALING HYDRODYNAMIC LIP -HIGH PRESSURE,WATER HAMMER And PRESSURE SURGES TIGHTEN THE SEAL

### TECHNICAL DATA

PIPE DN	PIPE O.D. RANGE	W.P.			
		DUCTILE(bar)		BRONZE(bar)	
mm	mm	SINGLE STRAP	DOUBLE STRAP	SINGLE STRAP	DOUBLE STRAP
32	41-45	16	25	10	16
40	46-51	16	25	10	16
50	57-64	16	25	10	16
65	66-83	16	25	10	16
80	82-89	16	25	10	16
80	94-104	16	25	10	16
100	112-124	16	25	10	16
100	125-134	16	25	10	16
125	138-146	16	25	10	16
150	164-172	16	25	10	16
150	174-185	16	25	10	16
200	215-226	16	25	10	16
200	230-245	16	25	10	16
250	165-280	16	25	10	16
250	282-300	16	25	10	16
300	315-337	16	25	10	16
300	343-362	16	25	10	16





## DISMANTLING JOINTS

### DISMANTLING JOINTS

Manufactured to AWWA C219 under quality management systems accredited to ISO 9001:2008. A double flanged composite fitting featuring a telescopic action between a flanged spigot and a flange adaptor. The joint is designed to provide longitudinal adjustment in flanged .4 pipe systems. Dismantling joints provide a simple method for the installation and removal of flanged valves, pumps, flow meters, flanged pipes and pipe fittings. Tie rods are provided for final anchoring and location and these also double as mating flange jointing bolts, reducing the number of these required.

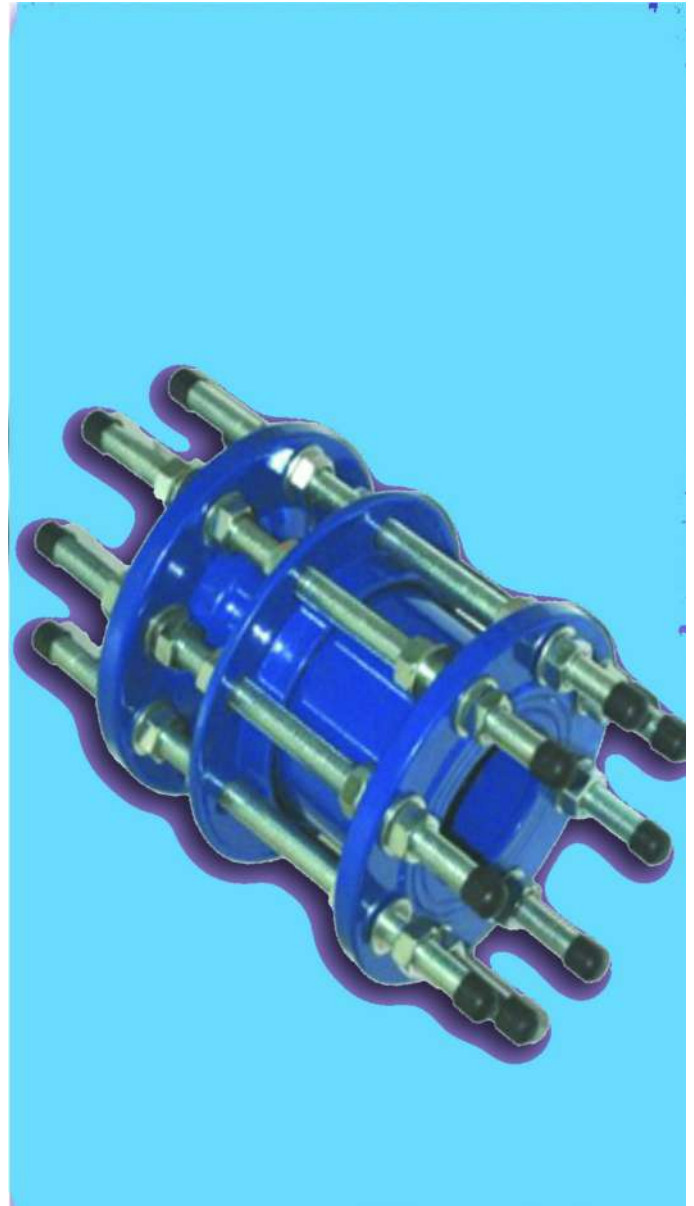
### PRODUCT RANGE

The dismantling joint range from JDF extends from 50mm to 2000mm and whilst the chart indicates flange ratings of PN16/10, all common drillings are available in pressures up to 40 BAR. The range indicated overleaf is typical and J D F11: can manufacture to special specifications and dimensions. on request.

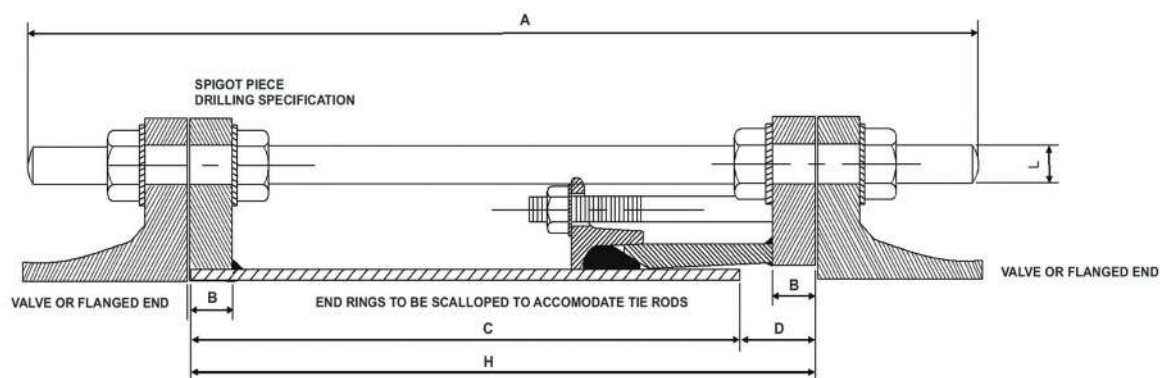
Thickness of flanges will not necessarily be the same as the mating flange. Flanges and flange adaptors will not be subject to full end or side thrust, most of which is absorbed by the flexibility in the rubber gaskets. Pipe end should be smooth, with no seams, score marks, dents or ovality.

### INSTALLATION

This is extremely simple and is generally done with the flange adaptor end connected to the valve or other appurtance. In cases where a full faced flange is required, for example on wafer butterfly valves, the joint is simply turned round to use the spigot flange instead.







NOMINAL BORE OF JOINT (mm)	FLANGE PN RATING (bar)	SPIGOT PIPE O.D. (mm)	SPIGOT PIPE WALL THICK (mm)	C SPIGOT LENGTH INCLUDING FLANGE (mm)	B ADAPTOR & SPIGOT FLANGE THICKNESS (mm)	H MIN LENGTH OF JOINT (mm)	C + D RECOM. JOINT LENGTH (mm)	H MAX LENGTH OF JOINT (mm)	TIE ROD QTY	L	X	A TIE ROD LENGTH (mm)
50	PN 10/16	60	3.2	165	12	165	185	205	4	M16	X	300
65	PN 10/16	76	3.2	165	12	165	185	205	4	M16	X	300
80	PN 10/16	89	3.2	165	12	165	185	205	4	M16	X	300
100	PN 10/16	114	3.9	165	12	165	185	205	4	M16	X	300
125	PN 10/16	140	4.2	165	14	165	185	205	4	M16	X	300
150	PN 10/16	165	4.2	165	16	165	185	205	4	M20	X	320
200	PN 10	219	4.5	165	16	165	185	205	4	M20	X	320
200	PN 16	219	4.5	165	16	165	185	205	4	M20	X	320
250	PN 10	273	4.5	175	19	175	195	215	4	M20	X	330
250	PN 16	273	4.5	175	19	175	195	215	4	M24	X	350
300	PN 10	324	4.5	175	19	175	195	215	4	M20	X	330
300	PN 16	324	4.5	175	19	175	195	215	4	M24	X	350
350	PN 10	356	4.5	250	23	250	275	300	4	M20	X	420
350	PN 16	356	4.5	250	23	250	275	300	4	M24	X	450
400	PN 10	406	4.5	250	24	250	275	300	4	M24	X	450
400	PN 16	406	4.5	250	24	250	275	300	4	M27	X	460
450	PN 10	457	4.5	250	24	250	275	300	4	M24	X	450
450	PN 16	457	4.5	250	24	250	275	300	4	M27	X	470
500	PN 10	508	4.5	250	25	250	275	300	4	M24	X	450
500	PN 16	508	4.5	250	25	250	275	300	4	M30	X	490
600	PN 10	610	4.5	250	25	250	275	300	4	M27	X	480
600	PN 16	610	4.5	250	25	250	275	300	4	M33	X	520
700	PN 10	711	6.0	250	25	250	275	300	4	M27	X	480
700	PN 16	711	6.0	250	25	250	275	300	4	M33	X	520
800	PN 10	813	6.0	250	25	250	275	300	4	M30	X	500
800	PN 16	813	6.0	250	25	250	275	300	6	M36	X	550
900	PN 10	914	6.0	250	25	250	275	300	7	M30	X	510
900	PN 16	914	6.0	250	25	250	275	300	7	M36	X	570
1000	PN 10	1016	6.0	260	27	260	290	320	7	M33	X	560
1000	PN 16	1016	6.0	260	27	260	290	320	7	M39	X	610
1200	PN 10	1219	8.0	280	35	280	310	340	8	M36	X	610
1200	PN 16	1219	8.0	280	35	280	310	340	8	M45	X	680
1400	PN 10	1420	8.0	310	45	310	340	370	9	M39	X	670
1400	PN 16	1420	10.0	310	45	310	340	370	9	M45	X	730
1600	PN 10	1620	10.0	350	60	350	380	410	8	M45	X	750
1600	PN 16	1620	10.0	350	60	350	380	410	8	M52	X	820
1800	PN 10	1820	10.0	350	60	350	380	410	11	M45	X	770
1800	PN 16	1820	10.0	350	60	350	380	410	11	M52	X	850
2000	PN 10	2020	12.0	350	60	350	380	410	12	M45	X	750
2000	PN 16	2020	12.0	350	60	350	380	410	12	M56	X	890

FOR 25 & 40 BAR WORKING PRESSURE PLEASE CONTACT US  
 THE ABOVE TABLE INCLUDES SAMPLES OF THE SIZES AVAILABLE, PLEASE CONTACT US FOR ANY OTHER SIZES.

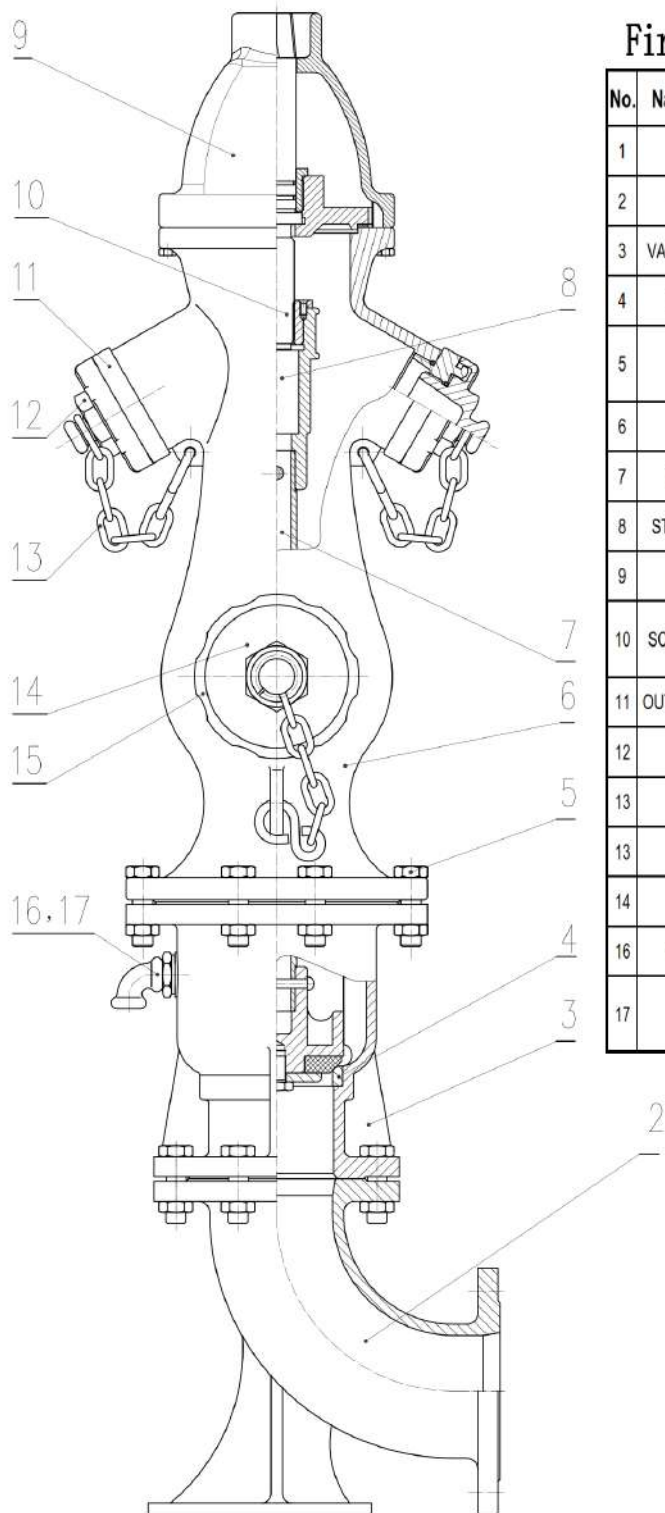


# FIRE HYDRANTS





## Outdoor Ground Fire Hydrant



### Fire Hydrant Components

No.	Name of parts	Specification	Material	Qty.
1	FL×SO 90°	DN100-150	GGG45	1
2	FL×FL 90°	DN100-150	GGG45	1
3	VALVE ASSEMBLY		GGG45	1
4	VALVE SEAT	DN100	ZCuZn38	1
5	SCREW		Stainless Steel 304	16
6	BODY		GGG45	1
7	VALVE STEM	ø40MM	Q215	1
8	STEM ASSEMBLY		GGG45	1
9	BIG HOOD		GGG45	1
10	SCREW MANDREL		Stainless Steel 304	1
11	OUTLET INTERFACE	DN65	ZCuZn38	2
12	HOOD	DN65	GGG45	2
13	OUTLET	DN100	ZCuZn38	1
13	CHAIN	ø6MM	Q215	3
14	HOOD	DN100	GGG45	1
16	DRAIN BAR		ZCuZn38	1
17	GASKET		Branched Polyethylene	1









# APPROVALS



بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ

١٤٣٧\٥٠٠٣٤\٢٦٥٣  
١٤٣٨-٠١-١٥

وزارة البيئة والمياه والزراعة  
Ministry of Environment, Water & Agriculture  
المديرية العامة للمياه بمنطقة القصيم



الموضوع : بشأن اعتماد مواد

الإدارة العامة للمياه بمدينة بريدة  
الإدارة الهندسية

المحترمين

السادة/ شركة نظم تقنية المياه للمقاولات

السلام عليكم ورحمة الله وبركاته ،،،

إشارة إلى مشروع تنفيذ خطوط مياه رئيسية بمدينة بريدة - مرحلة أولى - مقاولتكم وإلى كتابكم رقم ٢٠١٦/٠٠٤ وتاريخ ١٤٣٧/١١/٢٥ هـ بشأن طلبكم اعتماد المواد المستخدمة في المشروع .

عليه نحيطكم بما يلي:-

١- الموافقة على المواد التالية :-

م	المادة	المصنع	المورد
١	أنابيب من الحديد الزهر المرن (DI) صنف (K <sup>٩</sup> ) أقطار (٦٠٠ & ١٢٠٠) مم	مصنع جندل سو الهندي	شركة مطلق الغوييري
٢	القطع والوصلات من الحديد الزهر المرن (DI)	مصنع جدف السعودي	مصنع جدف السعودي

علماً بأن ذلك لا يعفيكم من ضمان سلامة المواد في فترة التشغيل الأولية للمشروع وسيتم إفادتكم لاحقاً في اعتماد باقي المواد بعد دراستها من إدارة الجوده.

مع أطيب تحياتي ،،،

١٤  
مدير الإدارة العامة للمياه بمدينة بريدة

م/ عبد المحسن بن محمد الفريحي





Kingdom of Saudi Arabia

Ministry of Water & Electricity

Minister's Office



المملكة العربية السعودية  
وزارة المياه والكهرباء  
مكتب الوزير

(٢٧٦)

سعادة وكيل الوزارة لشئون المياه  
سعادة الرئيس التنفيذي لشركة المياه الوطنية  
سعادة المدير العام لإدارة الصرف الصحي  
سعادة المدير العام للمياه بمنطقة الرياض  
سعادة المدير العام للمياه بمنطقة مكة المكرمة  
سعادة المدير العام للمياه بمنطقة المدينة المنورة  
سعادة المدير العام للمياه بمنطقة القصيم  
سعادة المدير العام للمياه بالمنطقة الشرقية  
سعادة المدير العام للمياه بمنطقة عسير  
سعادة المدير العام للمياه بمنطقة تبوك  
سعادة المدير العام للمياه بمنطقة حائل  
سعادة المدير العام للمياه بمنطقة الحدود الشمالية  
سعادة المدير العام للمياه بمنطقة نجران  
سعادة المدير العام للمياه بمنطقة جازان  
سعادة المدير العام للمياه بمنطقة الباحة  
سعادة المدير العام للمياه بمنطقة الجوف

السلام عليكم ورحمة الله وبركاته.

إلحاقاً لما سبق برقم (١/١٥٣) وتاريخ ١٤٣٣/٢/١٤هـ، بشأن اعتماد منتجات مصنع (جدف لمسبوكات الدكتايل) من أغطية المناهل ، وغرف الصمامات ، وصناديق الخدمة السطحية. وحيث قام فريق العمل المشكل بزيارة المصنع المشار إليه والوقوف على مراحل إنتاج قطع الدكتايل من أنواع وقسمات ووصلات ، وتم الإطلاع على إجراءات ضبط الجودة وتأكيداتها ، وقد أوصى بخطابه المؤرخ في ١٤٣٣/٣/١٩هـ، بقبول منتجات المصنع من القطع الخاصة بأنابيب الدكتايل بمختلف أنواعها ومقاساتها .

أمل الإطلاع ، والتوجيه حيال اعتماد القطع الخاصة بأنابيب الدكتايل بمختلف أنواعها ومقاساتها بالإضافة إلى أغطية المناهل وغرف الصمامات وصناديق الخدمة السطحية عدا الصمامات للمصنع المشار إليه أعلاه.

مع أطيب تحياتي ، ،

وزير المياه والكهرباء

عبدالله بن عبدالرحمن الحصين



صورة لمدير مصنع جدف لمسبوكات الدكتايل.

الرقم : ١١٢٣٥ التاريخ : ٢٢ ربيع الأول ١٤٣٣ المشفوعات :

الرياض - طريق الملك فهد - الرياض ١١٢٣٢ - هاتف الإتصالات الإدارية : ٢٠٥٢٧٤٨ - فاكس : ٢٠٥٢٧٤٩  
Riyadh - King Fahd Road - Riyadh 11233 - Communications Dept. Tel. : 2052748 - Fax : 2052749.





بسم الله الرحمن الرحيم

الرقم: 35/PSR/14840

داخلي - 02/04/1435

المرفقات:



شركة المياه الوطنية  
National Water Company

وفقه الله

سعادة المشرف العام على تخصيص المدن المكلف

السلام عليكم ، حمة الله وب كاته

إشارة إلى خطابكم رقم (١٤٨٤٠) وتاريخ ١٤٣٥/٤/٢هـ، بخصوص اعتماد مواد لمشروع ربط  
أبار العشييرة وشبكية الجنوب بالمدينة المنورة من مقاول المشروع شركة مطلق الغوييري  
للمقاولات.

بسم الله الرحمن الرحيم

عليه تجدون ادناه قائمة المواد واعتماداتها..

#	الوصف	الاعتماد	بلد المنشأ	الملاحظات
١	صمامات تحكم مصنع سنجر	مُعتمد	كندا	يعتمد للمشروع أعلاه فقط
٢	صمامات مصنع (VAG)	مُعتمد	المانيا	اعتماد عام
٣	اجهزة القياس مصنع (AAB) للصناعات الكهربائية المحدودة	مُعتمد	الاتحاد الاوربي	اعتماد عام
٤	صمامات (AVK)	مُعتمد	بولندا	يعتمد للمشروع أعلاه فقط
٥	القطع الخاصة من الصلب الغير ملحوم مصنع Rashtriya	غير معتمد	الهند	غير معتمد
٦	مولدات الكهربائية مصنع (JCB)	مُعتمد	المملكة المتحدة	يعتمد للمشروع أعلاه فقط
٧	مضخات آبار المياه الفاطسة مصنع (GRUNDFOS)	مُعتمد	الدنمارك	يعتمد للمشروع أعلاه فقط
٨	مسيوكات الدكتايل مصنع (جدف)	مُعتمد	السعودية	اعتماد عام

على ان يتم الاخذ بالاعتبار الملاحظات التالية:

١. تقديم شهادة اختبار المصنع وشهادة المنشأ من قبل المورد.
٢. تقديم اختبار الطرف الثالث (Third Party) للمنتجات المطلوبة.

ودمتم في رعاية الله،،،

المهندس. خالد بن زيد الرويس

مدير أعلى إدارة علاقات الموردين المكلف

١٤٣٩/٥١ - ١٤٣٩/٨٢	المديرية العامة للمياه بمنطقة حائل www.mcwa.gov.sa	النسابة العام الرقم ١٤٣٩/٦١.١٤/٤٩٨٢ التاريخ ١٤٣٩/٠١/١٨ المرفقات ١٠	وزارة البيئة والمياه والزراعة Ministry of Environment Water & Agriculture المملكة العربية السعودية Kingdom of Saudi Arabia إدارة المياه العامة بمنطقة حائل - (٢٧٤)	
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«تعميد»

اسم المشروع : تشغيل وصيانته مشروع المياه الشامل بمنطقة حائل.  
مدة المشروع : ( ٦٠ ) شهراً  
قيمة العقد بعد التخفيض : ( ٦٢.٣٦١.٤٥٠.٠٠٠ ريال ) اثنان وستون مليون  
وثلاثمائة وواحد وستون الف وأربعمائة وخمسون.  
تاريخ تسليم الموقع : ١٠ / ٢ / ١٤٣٦ هـ الموافق ١ / ١ / ٢٠١٥ م

السادة/ شركه الخريف لتقنيه المياه والطاقة المحترمين

السلام عليكم ورحمة الله وبركاته ، ، ،  
إشارة إلى العقد الموضح ببياناته بعالية والى خطابكم رقم ١٨٥/خ/ش بتاريخ  
٢٠١٧/١٠/٠١م بخصوص توريد عروض اسعار قطع غيار الخطوط بالمشروع .  
عليه اعتمدوا توريد قطع الغيار للمشروع حسب البيانات المرفقة بخطاب  
الطلب (المرفق) من شركة (جدف) حسب التسلسل ،

ولكم تحياتي...

والسلام عليكم ورحمة الله وبركاته ، ، ،

مدير عام خدمات المياه بمنطقة حائل

خالد بن عيد الجمعان

١١-prd@mcwa.gov.sa  
هاتف +٩٦٦٦٥٦٦٢٢٧ | فاكس +٩٦٦٦٥٦٦٢٢٩  
المديرية العامة للمياه بمنطقة حائل | شرق المجموع الحكومي | شارع القدس  
Tel +966 16 5662247 | Fax +966 16 5662291  
General Directorate of Water in Hail | East of government complex | Al Ouds street

8002472220  
www.mcwa.gov.sa



Kingdom Of Saudi Arabia  
Ministry Of Water & Electricity  
General Directorate For Water In Riyadh

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



المملكة العربية السعودية  
وزارة المياه والكهرباء  
الدرعية العامة للمياه بمنطقة الرياض

الموضوع / اعتماد التقديم الفني الخاص بالمحابس

المشروعات / مشاريع المحطات

المحترمين

السادة / شركة جيزة العربية للأنظمة

ص.ب (٦٧٧٦٥) الرياض (١١٥١٧) ت (٤٦٠٢٨٩٠) ف (٤٦٠٢٨٩٢)

السلام عليكم ورحمة الله وبركاته وبعد،،،

إشارة إلى عقد تنفيذ تطوير محطات الضخ الرئيسية بمشروع الدوامي عفيف الشامل (مقاولتكم)، وإشارة إلى خطابكم رقم (23016-MM002) وتاريخ ١٤٣٦/٠٤/٠٦ هـ بخصوص طلبكم اعتماد التقديم الفني الخاص بالمحابس للمشروع المذكور أعلاه.

وبعد مراجعة التقديم الفني الخاص بالمحابس، نفيديكم بأنه لا مانع من اعتماد التقديمات الفنية للمحابس من الشركات التالية:

- 1- Jdff – Saudi Arabia
- 2- SVM – Saudi Arabia
- 3- DIE ERSTE Industry Co-China

وطبقاً لمواصفات العقد، ونعيد لكم نسختين معتمدة.

ولكم تحياتي ،،،،

مدير عام إدارة المشروعات المكلف



المهندس/ فهد بن عودة الكديوي

١٤٣٦/٠٤/ ٢٨ هـ

١٤٣٦/٠٤/٢٩ هـ

١٠٠٣٤١٤٦٢٥٧

الرقم : ..... التاريخ : ..... المرفقات : .....

ص . ب ٢٢٦٣٣ - الرمز البريدي ١١٤١٦ الرياض - هاتف ٤٠٤٠١٩٠ - فاكس ٤٠٤٠٥٢٤





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الصادر العام  
الرقم ١٤٣٧/٦١٠١٤/٢٩٧٥٣  
التاريخ ١٤٣٧/٠٤/١٧  
المرفقات بدون

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



المملكة العربية السعودية  
وزارة المياه والكهرباء  
المديرية العامة للمياه بمنطقة حائل

الموضوع : بشأن اعتماد مصنع جدف لتوريد الصمامات البوابية

ادارة المشاريع  
اسم المشروع : مشاريع خزانات المياه بمنطقة حائل .  
اسم المقاول : مؤسسة مجموعة سنام للمقاولات .  
رقم المشروع : ٦٣/٠١/٠٠/٠٣١٥/٠٠/٠٠/٤  
قيمة عقد المشروع : (٥٤,٩٨٩,٥٤٠) ريال سعودي .  
تاريخ استلام الموقع : ١٤٣٣/٠٤/٢٤ هـ  
مدة المشروع : ٢٤ شهراً

السادة / مكتب عبد الله علي الماضي للاستشارات الهندسية  
المحترمين  
فاكس : ٠٦/٥٦٦٠٠٨٤  
ص ب : ١٠٨٢  
حائل : ٨١٤٣١  
السلام عليكم ورحمة الله وبركاته ،،،

سادة إلى خطابكم الوارد إلينا برقم ١٤٣٧/٦١٠١٤/٢٩٧٥٣ وتاريخ ١٤٣٧/٠٣/٢٣ هـ والمبني على خطاب مقاول المشروع الموضح بياناته أعلاه بشأن اعتماد مصنع جدف لمسبوكات حديد الزهر المرن كمورد ثاني للصمامات البوابية والفراشة لأعمال التوصيلات للمشروع أعلاه .  
عليه وبعد الدراسة نفيديكم بالموافقة على توصيتكم باعتماد مصنع جدف لمسبوكات حديد الزهر المرن كمورد ثاني للصمامات البوابية والفراشة لأعمال التوصيلات كما يلي :

م	المنتج	الموديل	الشركة المصنعة والموردة	ملاحظات
١	صمامات بوابية بضغط ١٦ بار	Resilient-seated Gate Valve with Flange	مصنع جدف لمسبوكات حديد الزهر المرن	الصمامات تكون حسب المواصفات الموضحة بالعقد
٢	صمامات فراشة بضغط ٢٥ بار	Resilient-seated Butterfly Valve	مصنع جدف لمسبوكات حديد الزهر المرن	الصمامات تكون حسب المواصفات الموضحة بالعقد

على أن تكون الصمامات الموردة مطابقة للمواصفات الفنية الواردة في بنود العقد وأن يتم إرفاق شهادات المنشأ وشهادات الاختبار اللازمة .

ويتحمل المقاول كافة ما قد يترتب على تأخره في تقديم واعتماد المواد اللازمة لتنفيذ المشروع .

وتقبلوا تحياتنا ،،،

والسلام عليكم ورحمة الله وبركاته ،،،

مدير إدارة المشاريع

م / سعود دخيل الشمري

١٤٣٧/٠٤/٠٨ هـ

١٤٣٧/٦١٠١٤/٢٩٧٥٣



المديرية العامة للمياه بمنطقة حائل  
www.mow.gov.sa  
٢٦ ٤١٣٣٧٠٠٤  
الصادر العام  
الرقم ١٤٣٧/٦١٠١٤/٢٩٧٥٣  
التاريخ ١٤٣٧/٠٤/١٧  
المرفقات بدون  
city

بِسْمِ اللَّهِ الرَّحْمَنِ الرَّحِيمِ



المملكة العربية السعودية  
وزارة المياه والكهرباء  
المديرية العامة للمياه بمنطقة حائل

الموضوع : بشأن اعتماد مصنع جدف لتوريد الصمامات البوابية  
اسم المشروع : ادارة المشاريع  
اسم المقاول : مشاريع خزانات المياه بمنطقة حائل .  
رقم المشروع : مؤسسة مجموعة سنام للمقاولات .  
قيمة عقد المشروع : ٦٣/٠١/٠٠/٠٣١٥/٠٠/٠٠/٤ : ٥٤,٩٨٩,٥٤٠ ريال سعودي .  
تاريخ استلام الموقع : ١٤٣٣/٠٤/٢٤ هـ : مدة المشروع : ٢٤ شهراً

السادة / مكتب عبد الله علي الماضي للاستشارات الهندسية  
المحترمين  
فاكس : ٠٦/٥٦٦٠٠٨٤  
ص ب : ١٠٨٢  
حائل : ٨١٤٣١  
السلام عليكم ورحمة الله وبركاته ،،،

سادة إلى خطابكم الوارد إلينا برقم ١٤٣٧/٦١٠١٤/٢٩٧٥٣ وتاريخ ١٤٣٧/٠٣/٢٣ هـ والمبني على خطاب مقاول المشروع الموضح بياناته أعلاه بشأن اعتماد مصنع جدف لمسبوكات حديد الزهر المرن كمورد ثاني للصمامات البوابية والفراشة لأعمال التوصيلات للمشروع أعلاه .  
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م	المنتج	الموديل	الشركة المصنعة والموردة	ملاحظات
١	صمامات بوابية بضغط ١٦ بار	Resilient-seated Gate Valve with Flange	مصنع جدف لمسبوكات حديد الزهر المرن	الصمامات تكون حسب المواصفات الموضحة بالعقد
٢	صمامات فراشة بضغط ٢٥ بار	Resilient-seated Butterfly Valve	مصنع جدف لمسبوكات حديد الزهر المرن	الصمامات تكون حسب المواصفات الموضحة بالعقد

على أن تكون الصمامات الموردة مطابقة للمواصفات الفنية الواردة في بنود العقد وأن يتم إرفاق شهادات المنشأ وشهادات الاختبار اللازمة .

ويتحمل المقاول كافة ما قد يترتب على تأخره في تقديم واعتماد المواد اللازمة لتنفيذ المشروع .

وتقبلوا تحياتنا ،،،

والسلام عليكم ورحمة الله وبركاته ،،،

مدير إدارة المشاريع

م / سعود دخيل الشمري

١٤٣٧/٠٤/٠٨ هـ


١٤٣٧/٦١٠١٤/٢٩٧٥٣





المملكة العربية السعودية  
الحرس الوطني  
مشروع إسكان منسوبي الحرس الوطني



Transmittal Form			
LOCATION:	<input checked="" type="checkbox"/> Khashm Alaam <input type="checkbox"/> Soldier Villa	<input type="checkbox"/> KKA <input type="checkbox"/> Officer Villa	<input type="checkbox"/> ALL <input type="checkbox"/> External Works <input checked="" type="checkbox"/> Others
TR No.:		TR-616A	
Date:		22	11 2014
TYPE OF TRANSMITTAL:	<input type="checkbox"/> IFC <input type="checkbox"/> DWG <input type="checkbox"/> DOC <input checked="" type="checkbox"/> MAT	SPECIFICATION:	
DISCIPLINE:	<input type="checkbox"/> ARCH <input type="checkbox"/> CIVIL/INFRA <input type="checkbox"/> STRC <input checked="" type="checkbox"/> MECH <input type="checkbox"/> ELEC	02730 / ASTM-A746	
TO: SANG	CC:		
1	STP - Ductile Iron Pipes & Fittings		
Manufacturer:		JDFF Ductile Fitting Factory	
Supplier:		WETICO	
Area of Application:		STP	
FOR SAUDI OGER LTD.			
CQC MANAGER:		SOL REPRESENTATIVE:	
SIGNATURE: <i>[Signature]</i>		SIGNATURE: <i>[Signature]</i>	
DATE:		DATE: 22-11-14	
CONSULTANTS RESPONSE: لإستعمال المكتب الأستشاري			
REMARKS			
			
<input type="checkbox"/> SEE ATTACHED COMMENTS		<input type="checkbox"/> SEE COMMENTS ON DRAWINGS	
ENGINEER:		PROJECT MANAGER (DAMCE):	
SIGNATURE:		SIGNATURE:	
DATE:		DATE:	
SANG RESPONSE: لإستعمال الحرس الوطني			
REMARKS			
<p>الوانية حسب المخطط والمرفقة على انه يتم تسليم العينة 2 المطوية للونار النهائي</p>			
<input checked="" type="checkbox"/> SEE ATTACHED COMMENTS		<input type="checkbox"/> SEE COMMENTS ON DRAWINGS	
ENGINEER:		PROJECT MANAGER: ENG. FAHAD AL GIFARI	
SIGNATURE:		SIGNATURE: <i>[Signature]</i>	
DATE:		DATE: 10 Dec 2014	
هذه الموافقة لا تعني القبول من مسؤوليته حسب متطلبات العقد			





PMD - 028(1415/05)

 <p>الشركة السعودية للكهرباء Saudi Electricity Company طاقة مضمونة</p>		<p><b>PROJECTS SECTOR</b> <b>EHV Projects Department -COA</b></p> <p><b>REVIEW OF CONTRACTOR'S SUBMITTAL</b></p>	
Submittal No. :	NCC-T&D/SCI4400009568/APN-1/129	Date :	8-Apr-18
<p>PROJECT TITLE : 380kV Underground Cables between New Airport North BSP No. 9089 and PNAU BSP No. 9024          CONTRACT NO. : 4400009568 JO NO. : 1-1611243.03          CONTRACTOR : NATIONAL CONTRACTING CO. LTD. PLANT NO. :</p>			
<p>To : <b>MANAGER</b> Extra High Voltage Projects Department-COA Saudi Electricity Company Riyadh - 11416 Kingdom of Saudi Arabia</p>		Copy To:	<p>From : NCC T&amp;D Center (Contractor) Abqaiq Road, P.O. Box # 90, Al-Khobar-31952 K.S.A. Project Office : ( Riyadh) Al-Munsiyah Area, Al-Qana Street Qurtubah, Riyadh, K.S.A</p>
<p>ACCEPTANCE OF THE FOLLOWING SUBMITTAL IS HEREBY REQUESTED</p> <p>Check <input checked="" type="checkbox"/> Drawings / <input checked="" type="checkbox"/> Materials / <input type="checkbox"/> Test Reports <input type="checkbox"/> Others (Specify)          Appropriate Box: <input type="checkbox"/> Sketches <input type="checkbox"/> Equipment</p>			
<p>FILL-UP APPLICABLE INFORMATION BELOW:</p> <p>Description : <b>Technical Documents - Link Box Manhole &amp; Communication Handhole Covers and Frames</b></p> <p>- Company profile - Drawings - SEC earlier approvals</p> <p>Reference Specification : <b>PTS-12CC352 Rev3</b></p> <p>Manufacturer/Supplier : M/s. Jdff Ductile Fitting Factory K.S.A</p> <p>NCC's Previous Reference : -</p> <p>SEC's Previous Reference : -</p> <p>Remarks : <b>With reference to the above, we attach herewith two (2) sets of (Hard copy &amp; CD) Technical documents for Link box Manhole and Communication Handhole Covers and Frames from M/s. Jdff Ductile Fitting Factory K.S.A, for the above subject project, for SEC review and approval.</b></p>			
<p>COMPLYING WITH SCOPE OF WORK AND TECHNICAL SPECIFICATION(S) ? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO          IF "NO", INDICATE DEVIATIONS : (Provide justification and attach supporting documents)</p>			
<p>Submitted by: Sr. Project Manager (NCC)          Signature: <i>A.G.S. Vasay</i>          Name: <b>A.G. SRINIVASAN</b>          Date: <b>08-04-2018</b></p>		<p>Received by: Project Engineer, (Civil &amp; EM Works)          Signature: <i>[Signature]</i>          Name: <b>Eng'r Mr. Eduardo Valles Cuaresma</b>          Date: <b>09 APRIL 2018</b></p>	
<p>FOR SEC-COA Engineering &amp; Projects Sector / EHVPD USE ONLY</p>			
<p>SEC HAVE REVIEWED THE ABOVE SUBMITTAL AND FOUND IT:</p> <p><input checked="" type="checkbox"/> ACCEPTABLE  <input type="checkbox"/> ACCEPTABLE WITH COMMENTS  <input type="checkbox"/> ACCEPTABLE, EXCEPT AS NOTED (RESUBMIT)  <input type="checkbox"/> NOT ACCEPTABLE (RESUBMIT)  <input checked="" type="checkbox"/> PROVIDE ADDITIONAL INFORMATION  <input type="checkbox"/> SEE ATTACHED COMMENTS</p>		<p>REMARKS: ① Proposed manufacturer/supplier of Link box manhole &amp; communication handhole covers &amp; frames by Jdff Ductile Fitting Factory is Acceptable.          ② Provide linkbox manhole &amp; communication handhole cover &amp; frame as per PTS SEC Standards and approved drawings.          Please use extra sheets if needed.</p>	
<p>Group Leader / EVPRC-SFP          Signature: <i>[Signature]</i>          Name: <b>Engr. Mohammad Jalaluddin</b>          Ref. No: <b>187/W-2-UGC 2014-062/12021001</b>          Date: <b>09 April 2018</b></p>		<p>Received by: Signature: _____          (Contractor) Name: _____          Ref. No: _____          Date: _____</p>	
<p>NOTE: Acceptance does not release the Contractor from his responsibilities in performing the work in strict conformance with Contract Scope of Work and Technical Specifications.</p>			

09/04/2018 10:37:41 am

Riyadh





<b>CONSULTANT</b> <b>Omrania</b> <b>عمرانيا</b>	<b>PROJECT</b>  WESTERN SECTOR PROJECTS YANBU AL BAHR	<b>Contractor</b> <b>SaudiTumpane</b> SAUDI TUMPANE COMPANY LTD
--	--	---

### MATERIAL SUBMITTAL

Ref. No. : <b>M O H - M A T 51</b> Rev.: <b>01</b> Date : <b>27 - 02 - 2017</b>	<input type="checkbox"/> New Submittal <input checked="" type="checkbox"/> Resubmittal
<input type="checkbox"/> Architectural <input type="checkbox"/> Electrical <input type="checkbox"/> Civil <input type="checkbox"/> Furniture/Equipment <input type="checkbox"/> Structural <input checked="" type="checkbox"/> Mechanical <input type="checkbox"/> Hardscape <input type="checkbox"/> Landscape <input type="checkbox"/> Interior Design <input type="checkbox"/> Others	Specs. No. <b>Sec#</b> Drwg. No.

Description*	Manufacturer	Supplier	No. of Catalogue/Samp	Code
<b>Approval of Technical Submittal For Resilient seated Socket Gate Valve and extension spindle for valves .</b>	<b>JDFF</b>			<b>B</b>

\* Description: (Manufacture, Model, Type, Size, Colour, etc.) Original

Catalogue     Drawing     Sample     Certificate     Calculation     Document

Having checked this submittal, we certify that it conforms to the requirements of the Contract Documents in all respects except as otherwise indicated herein (

Name & Signature/Material Engineer:

Name & Signature/Project Manager:

Received by: \_\_\_\_\_

Remarks / Comments:

#1: ايد شركة (مورد) جديف مدعومة بما تم تزويد به لعمارة الإسكان لتوريد (العمارات) وعلمه لم مانع لدينا من المتابعة ، ولقد مراجعة لوثائقه لثقتنا بتبنيها مع علمنا ان المواد المقترحة اقلها من المتطلبات وطابق المواصفات الفنية والعقد المبرم ، وان يكون ساهم لعمارة لتفخ الغرض صالحة (Nonrising stem) .

#2: **يجب على العميل الأذني** تقديم شهادات الاختبار وجميع المواصفات المدونة لوثائق الغرض بالتوقيع عند التوريد .

#3: مراجعة مدعيه لبيانه لثقتنا بتبنيها مع علمنا ان المواصفات مطابقة لثقتنا .

#4: مرصده لكم لوثائق الغرض المقدمه لثقتنا رقم (١٥٠) و (١٦٨) ، لغرض رقم (SD-P905) .

Status	A Approved	c Revise & Resubmit	N
	<b>(B)</b> Approved as noted	D Rejected	

Consultant Site Office Engineer: Date: <b>01/03/2017</b>	Project Manager: Name & Signature: _____ Date: _____	Consultant Head Office  Name & Signature: _____ Date: _____
--	--	--





شركة المياه الوطنية  
National Wafer Company

إدارة خدمات الأصول

الموضوع : اعتماد مواد

المحترمين

السادة شركة اليمامة للأعمال التجارية والمقاولات

ص.ب : ٢١١٠ الرمز البريدي : الدمام ٣١٤٥١ هاتف : ٠١٣٨٢٦٦٤٤٤ فاكس : ٠١٣٨٢٧٢٧١٩

السلام عليكم ورحمة الله وبركاته،،،

إشارة الى خطابكم رقم (C7-6-YC-NWC-LT100-2016) وتاريخ ١٤٣٧/٠٣/٢٥ هـ بخصوص اعتماد شركة جدف لمسبوكات حديد الزهر المرن لمشروع تصميم تنفيذ أعمال تقاطع خط المياه الرئيسي قطر (١٠٠٠ ملم) الاميرون المغذي لأحياء (السلطان - الحمدانية - الصالحية - العزيزية ) مع مسار قنوات السيول بالحفر المتقبي بمدينة جدة .

عليه نرفق لكم نسخة معتمدة من استمارة اعتماد المواد وعليكم الالتزام بتعليمات الجهة المصنعة

حسب المتبع. 

ولكم أطيب تحياتي،،،

مروان بن عبدالله الجهني

مدير أعلى إدارة خدمات الأصول المكلف







الرقم: ٤٤٠٢  
التاريخ: ١٤٣٤/٧/١٩  
المرفقات: لا يوجد



المملكة العربية السعودية  
وزارة الإسكان  
الإدارة العامة للإشراف ومتابعة المشاريع  
لجنة اعتماد المواد

الموضوع: طلب اعتماد منتجات مصنع جدف للمسبوكات

المحترمين / مصنع جدف لمسبوكات الدكتايل

ص.ب: ١١٣٨٣ الرياض: ٣٥٥٩٥٩ الهاتف: ٤٩٨١٩١٩ الفاكس: ٤٩٨٧١٠٧

السلام عليكم ورحمة الله وبركاته

إشارة إلى خطابكم الوارد إلينا برقم (٦١٤٨) وتاريخ ١٤٣٤/٠٦/٢٧ هـ بشأن طلب اعتماد منتجاتكم لمسبوكات الدكتايل من شبكات المياه والصرف الصحي العادية والميكانيكية وأغطية مناهل الصرف الصحي وأغطية المياه ومسايد الأمطار في مشاريع الوزارة.

وبعد الإطلاع والدراسة من قبل المختصين بالوزارة ملف التأهيل، نفيدكم بأنه لا مانع من اعتماد منتجاتكم وذلك على أن يتم التقديم عن طريق المقاولين المنفذين للمشاريع، مع الالتزام بالموصفات الفنية الخاصة بالوزارة.

ولكم تحياتي







المشرف العام على وكالة الوزارة

للشؤون الفنية

سنة ١٤٣٥

المهندس / حسين بن محمد عسييري



<b>Contractor:</b>  شركة عبر المملكة السعودية - سبك Saudi Pan Kingdom SAPAC For Trading , Industry & Contracting		<b>Owner :</b>  الهيئة السعودية للمدن الصناعية ومناطق التنمية Saudi Industrial Property Authority		<b>Consultant:</b>  mouchel building great relationships شركة موشيل ميكل ايمست - ليمتد					
<b>Document Title</b>	<b>Material Submittal Form : MS</b>		To be submitted by Contractor						
<b>Project Title</b>	Development of Second stage of Sudair City for Industry and Businesses - ( Sudair 2 )								
<b>Document / FIR Number</b>	<b>Rev.</b>	<b>Date</b>		<b>Prev. FIR Reference No</b>					
MOD-SUD1-02-002-MS -	GNRL - 005	12	1	2014					
<b>Contractor's Request Information - Details of Work Requested for Inspection</b>									
<b>Discipline</b>	Civil	Structural	Roads	Material	Electrical	Water <input checked="" type="checkbox"/>	Sewage <input checked="" type="checkbox"/>	Drainage	Irrigation <input checked="" type="checkbox"/>
<b>Use Zone</b>	Spine Road <input checked="" type="checkbox"/>	Residential Zone <input checked="" type="checkbox"/>	Industrial Zone <input checked="" type="checkbox"/>	Logistic Zone <input checked="" type="checkbox"/>	As applicable				
<b>Material Name</b>	<b>Ductile fittings</b>								
<b>Contract References</b>									
<b>Other Material details</b>									
<b>SUPPLIER NAME</b>	مصنع جندف لمسبوكات الدكتايل - Jdff			<b>Origin</b>	Riyadh - KSA				
<b>MATERIAL DETAILS</b>	TEES, ELBOWS, PUDDLE PIECES, REDUCERS, END CAPS, SPINDLES, AND SURFACE BOXES.								
<b>Cost / Time / Back charge Impact</b>									
<b>Attachments</b>	Catalogue <input checked="" type="checkbox"/>	Drawing(s) <input type="checkbox"/>	Certificate <input checked="" type="checkbox"/>	Tech. data <input type="checkbox"/>	Compliance <input type="checkbox"/>				
I, the undersigned, certify that submitted material for Consultant's action comply with contract's specifications and all other relevant requirements unless otherwise stated.									
<b>Name ( Project Manager )</b>	ع. م. م. م. م.		ت. م. م. م.		<b>Date</b> 15/01/2014				
<b>Response / Action by Consultant ( Inspection , Record and comments ) :</b>									
<b>SN</b>	<b>Discipline</b>	<b>Name</b>	<b>Signature &amp; Date</b>	<b>Action : Comments...</b>					
1	Civil Engr. UTLs								
<b>Action by Consultant - Construction Manager :</b>				<b>Date</b>	15/01/2014				
Jdff approved in phase 1 for this material for phase 2 is ok but SAPAC submit another supplier									
<b>Approved</b>	<input checked="" type="checkbox"/>	<b>Approved as noted</b>	<input type="checkbox"/>	<b>Not approved ( Resubmit )</b>	<input type="checkbox"/>				
<b>Owner Representative Comments:</b>									
									
<b>MS received by Consultant</b>	<b>Name -Sign.-Date</b>	AIM  12/01/2014		<b>Time</b>					
<b>MS received back by SAPAC</b>	<b>Name -Sign.-Date</b>	 15-01-2014		<b>Time</b>	P. 30 pm				
Note : Actions and information provided on this document by MOUCHEL do not relieve the Contractor from any of his contractual obligations.									





kingdom of saudi arabia  
Ministry of Water and Electricity  
General Directorate of Water  
Medina Region



المملكة العربية السعودية  
وزارة المياه والكهرباء  
المديرية العامة للمياه بمنطقة المدينة المنورة

## استمارة اعتمادات فنية Technical Approval Request

PROJECT No: ..... رقم المشروع: ..... التاريخ: ٢٠١٤/١٠/١٢  
PROJECT NAME: اسكان المدينة المنورة اسم المشروع: ..... رقم الاستمارة: .....  
PROJECT LOCATION: الاسكان خلف مستشفى الولادة موقع المشروع: ..... رقم المراجعة: .....  
CONTRACTOR: شركة سبيك المقاول: .....

SUBMITTAL TYPE	CIVIL	MEC.	ELEC.
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Ref. المرجع	Submitted Material Specification	مواصفات المادة المقدمة	Remarks ملاحظات
BOQ	Material Name:	محابس البوابة والفرشة والهواء	اسم المادة:
SPEC		مشروع اسكان المدينة المنورة	المخطط/
DRW	Company:	جدف	الشركة:
OTHER	Made in:	المملكة العربية السعودية	بلد المنشأ:

توصيات المصنع	جدول مطابقة المواصفات	عينة مواد	جدول الكميات	مخططات المناقصة	عدد النسخ	المرفقات:
List of Manufacturers	Specification Comparison Sheet	Sample	BOQ's List	Tender Drawings		

توقيع وختم المقاول  
Contractor Sign. & Stamp

تاريخ الاستلام  
Receiving Date

ملاحظات اللجنة الفنية:	Consultant Remarks:

قرار اللجنة الفنية:	Consultant Decision:
مع الموافقة	Accepted
مع الموافقة وفقاً للملاحظات المذكورة أعلاه	Accepted according to the above mentioned remarks
إعادة تقديم الاعتماد (معلومات إضافية مطلوبة)	Re-submit (Further information required)
مع عدم الموافقة وفقاً للملاحظات المذكورة أعلاه	Not accepted according to the above mentioned remarks

اعتماد اللجنة الفنية:	Consultant Acceptable :			
الاسم	التوقيع	موافق	غير موافق	الجهة
أ/م/ع/م		✓		إدارة الدراسات والتصاميم
أ/م/ع/م		✓		إدارة التشغيل والصيانة
				الإدارة العامة للمشاريع
				الإدارة العامة للفروع

تاريخ الاعتماد: ٢٠١٤/١٠/١٩ approval Date:

مساعد المدير العام للدراسات والتصاميم  
م/ خالد بن علي يوسف







استلام المقاول: .....  
التاريخ: .....



This approval doesn't relieve the contractor from his contractual obligations and responsibilities.





<b>Contractor:</b>  شركة عبر المملكة السعودية - سيك Saudi Pan Kingdom SAPAC For Trading , Industry & Contracting		<b>Owner :</b>  الهيئة العامة للمدن الصناعية ومناطق التقنية Saudi Industrial Property Authority		<b>Consultant:</b>  mouchel building great relationships شركة موشيل ميبل ايمست - لومند					
<b>Document Title</b>	<b>Material Submittal Form : MS</b>		To be submitted by Contractor						
<b>Project Title</b>	Development of Second stage of Sudair City for Industry and Businesses - ( Sudair 2 )								
<b>Document /FIR Number</b>	<b>Rev.</b>	<b>Date</b>		<b>Prev. FIR Reference No</b>	<b>Rev.</b>				
MOD-SUD1-02-002 -MS -	PW - 005	2	2	2014					
<b>Contractor's Request Information - Details of Work Requested for Inspection</b>									
<b>Discipline</b>	Civil	Structural	Roads	Material	Electrical	Water <input checked="" type="checkbox"/>	Sewage	Drainage	Irrigation
<b>Use Zone</b>	Spine Road <input checked="" type="checkbox"/>	Residential Zone <input checked="" type="checkbox"/>	Industrial Zone <input checked="" type="checkbox"/>	Logistic Zone <input checked="" type="checkbox"/>	As applicable				
<b>Material Name</b>	<b>FIRE HYDRANT</b>								
<b>Contract References</b>									
<b>Other Material details</b>									
<b>SUPPLIER NAME</b>	Jdff مصنع جفف لمبوبكات الدكتايل - الدكايل			<b>Origin</b>	RIYADH - KSA				
<b>Cost / Time / Back charge Impact</b>									
<b>Attachments</b>	Catalogue <input checked="" type="checkbox"/>	Drawing(s) <input type="checkbox"/>	Certificate <input checked="" type="checkbox"/>	Tech. data <input checked="" type="checkbox"/>	Compliance sht. <input type="checkbox"/>				
I, the undersigned, certify that submitted material for Consultant's action comply with contract's specifications and all other relevant requirements unless otherwise stated.									
<b>Name ( Project Manager )</b>	المهندس/ سلامة الراضي			<b>Date</b>	2 / 2 / 2014				
<b>Response / Action by Consultant ( Inspection , Record and comments ) :</b>									
<b>SN</b>	<b>Discipline</b>	<b>Name</b>	<b>Signature &amp; Date</b>	<b>Action : Comments...</b>					
1	Civil Engr. UTLs								
<b>Action by Consultant - Construction Manager :</b> Eng: Ahmed Ibrahim Date 04 / 02 / 2014									
No objection to add this supplier to sudair 2 project suppliers list لا اعاية الى اضافة المورد الى قائمة الموردين لسداير 2  . 2/2									
<b>Approved</b>	<input checked="" type="checkbox"/> Approved as noted	<input type="checkbox"/> Not approved ( Resubmit )	<input type="checkbox"/> For information						
<b>MS received by Consultant</b>	<b>Name -Sign.-Date</b>	Eng: Ahmed Ibrahim 		<b>Time</b>	2:30				
<b>MS received back by SAPAC</b>	<b>Name -Sign.-Date</b>			<b>Time</b>					
Note : Actions and information provided on this document by MOUCHEL do not relieve the Contractor from any of his contractual obligations.									



<b>Proj. no. :</b> S14006-0100D PACKAGE 01	<b>Employer:</b>  MINISTRY OF FINANCE	<b>Request No.</b> MAT-MCW-0186-00
<b>Consultant:</b>  dar al-handasah shair and partners s.a.l.	<b>Contractor:</b>  شركة العوزان للتجارة والمقاولات العامة AL FUZAH TRADING & GENERAL CONSTRUCTION CO.	<b>Date</b> 09-04-16

**Submittal for Approval of Materials** ✓

**1. Material description (one item only on this form) :**  
**PUDDLE FLANGES**  
 Area of application : COOLING TOWER COLD WATER BASIN  
 Drawing ref: \_\_\_\_\_  
 B.O.Q. Ref. No. : 23 HVAC  
 Specification Ref: 210517, 220517 & 230517      Standards : ASTM A53/A53M

Attach all relevant technical literature marked to identify relevant description, current Test Certificates, samples as appropriate.

**2. Manufacturer / supplier**  
 Company Name : **JDFF FITTINGS**  
 ADDRESS: P.O. BOX 8235 RIYADH 11482-TEL: 00966114740532-FAX: 00966114761656  
 Local Agent : **JANCO JABEL NEES COMPANY**

**3. Delivery :**  
 Country of origin : KSA  
 Availability:  
 Locally Manufactured       Overseas

Delivery	Ex-works/ total duration	[ _____ ]
	Estimated time of arrival on site	[ _____ ]
Program	Date material required on site	[ _____ ]
	Latest date for order	[ _____ ]

We certify that the above submitted items have been reviewed in detail and are correct and in strict conformity with the contract drawings and specifications except as otherwise stated; also that the material sources indicated above have been reviewed in detail and that they will supply the submitted items in conformity with the above and deliver same timely.

Submitted by : ENG. ALTAF KHAN Signature \_\_\_\_\_

<b>4. Engineer's Representative comments:</b> <u>Approved as noted:</u> <u>* Sch. 40 (minimum) Flanges to be utilized</u> <u>* Galvanization certificate (certified by a 3rd Party) to be provided</u> <u>* Approval is for material only. Installation (locations and details) shall be in accordance with the approved Shop Drawings.</u> <u>10/04/2016.</u> Signature _____ Date : 10/04/2016	<input type="checkbox"/> Approved
	<input checked="" type="checkbox"/> Approved as noted
	<input type="checkbox"/> Revise and resubmit
	<input type="checkbox"/> Rejected
	<input type="checkbox"/> Sample required
	<input type="checkbox"/> Tests required
<input type="checkbox"/> Additional information required	
<input type="checkbox"/> Manufacturer's guarantee required	

Approval shall not relieve Contractor of his liabilities under the Contract or constitute authorization of any change to Contract Documents.





شركة المياه الوطنية  
National Water Company

SUPERVISION SERVICES FOR THE FIRST STAGE PROJECTS FOR RIYADH WATER  
SUPPLY MASTER PLAN CONTRACTS.

ATTACHED DOCUMENTS

PROJECT CODE: RW0101

CONTRACTOR: Saudi Tumpane Company Limited

DOCUMENT ATTACHED TO: MATERIAL FOR APPROVAL (D. I. Fittings from JDFF)

DOCUMENTAL CODE: RW0101-T-MAT-SAT-000014-E02

CONSULTANT'S COMMENTS TO THE SUBMITTED MATERIAL FOR APPROVAL FORM:

Fittings (ONLY FITTINGS) from JDFF are approved as long as the following conditions are satisfied:

- Fittings should be K12
- Joints should be K14
- All fittings must be coated using FB Epoxy with a minimum thickness of 300 microns.
- All the manufacturer's test results should be submitted before positioning them on the site, if this is not the case, the tests will be performed before using without any additional cost.

Imani Imani  
Consultant name



Signature

07/16/2013  
Date







## مصنع جدف لمسبوكات الدكتايل

[www.al-jazeaindustrial.com.sa](http://www.al-jazeaindustrial.com.sa) [www.jdff.net](http://www.jdff.net) [jdff@jdff.net](mailto:jdff@jdff.net)

المملكة العربية السعودية - الرياض - 11383 - ص.ب 355959 إدارة المصنع: هاتف 0114981919/0114983814 - فاكس 0114987107

المعارض: فرع الرياض: 0114767503 فرع جدة: 0126637923 فرع الدمام: 0138154336