IGS-M-PL-10-2(2)

Jul. 2010

APPROVED



مشخصات فني خريد

شیرهای توپکی کلاس ۳۰۰

Ball Valves Class Rating :300 part(2)

ADDENDUM: The following paragraph in all three parts of IGS-M-TP-010 (1375),has been replaced by attached table. "Valve external surface shall be painted according to manufacturing standard"

		ABOVE GROUND BALL VALVE			
Primer	coat	Epoxy polyamide ,in accordance with SSPC 22 ,with a min. thickness of(DFT) of 70μm .			
Intermediate coat		Epoxy polyamide ,in accordance with SSPC 22 , with a min. thickness of 140μm.			
Top co	oat	Two-component aliphatic polyurethane , in accordance With MIL-C-83286 B ,or equivalent ,with min. thickness (DFT) of 70µm. Colour : white (RAL 9016)			
	ВІ	URIED BALL VALVE			
	First option				
Two component liquid epoxy coating in	Valves <24 in.	1.Service temperature : -20° C to +60° C. 2.Thickness : class B (min. DFT 800µm). 3.Cutback at the ends : (100±10)mm.			
Accordance with EN 10289	Valves≧24 in.	1.Service temperature : -20° C to +80° C. 2.Thickness : class C (min. DFT 1500µm). 3.Cutback at the ends : (150±20)mm.			
		Second option			
Two component polyurathane coating in	Valves <24 in.	1.Service temperature : -20° C to +60° C. 2.Thickness : class A(min. DFT 800µm). 3.Cutback at the ends : (100±10)mm.			
Accordance with EN 10290	Valves≥24 in.	1.Service temperature : -20° C to +80° C. 2.Thickness : class B (min. DFT 1500µm). 3.Cutback at the ends : (150±20)mm.			

Normative references

1.SSPC -paint 22 ,1982 : Epoxy polyamide paints (Primer ,Intermediate , Top coat).

(Editorial changes Sept2000)

2.MIL-C-83286 B : Urethane , Aliphatic isocyanate Coating.

3.BS EN 10289, 2002 : Steel tubes and fittings for offshore and offshore pipelines-

External liquid applied epoxy and epoxy modified coatings.

4.BS EN 10290, 2002 : Steel tubes and fittings for offshore and offshore pipelines-

External liquid applied polyurethane and polyurethane

modified coatings.

SPCIFICATION FOR BALL VALVES, FLANGED ENDS, CLASS 300, SIZE: 2-6 IN.

BALL VALVE, FOR GAS DISTRIBUTION AND TRANSMISSION PIPELINE CARBON STEEL, FLANGED ENDS, R.F., C.S.F., CLASS 300, WRENCH OPERATED .

ANTI STATIC DESIGN, DOUBLE BLOCK AND BLEED FACILITY IN OPEN AND CLOSE POSITION, WITH SEALANT INJECTION SYSTEM.

FIRE SAFE TO API RP 6F OR API 607 OR B.S. 5146.

STEM SHALL BE OF THE ANTI BLOW OUT TYPE WITH AT LEAST TWO OR MORE STEM SEAL IN THE DESIGN, TOP SEAL SHALL BE EASILY REPLACEABLE UNDER PRESSURE.

VALVE SHALL BE FURNISHED WITH A VALVE POSITION INDICATOR,
SHOWING OPEN POSITION IN THE DIRECTION OF FLOW AND CLOSE POSITION PERPENDICULAR TO DIRECTION OF FLOW, THE SHUT AND OPEN
TERMS(IN ENGLISH) SHALL BE PERMANTLY INDICATED IN A VISIBLE LOCATION

DESIGN, DIMENSIONS, TESTING AND MARKING ALL ACC. TO API 6D LATEST EDITION .

- 3/ IN CASE OF REDUCED BORE ,PORT AREA SHALL BE SPECIFIED BY MANUFACTURER.
- 4/ WRENCH SHALL BE QUOTED SEPARATELY.

تاریخ تائید : درکمیته تخصصی لوله ، اتصالات وشیرآلات مورخ تاریخ تصویب : در کمیته عالی استاندارد مورخ

RADIOGRAPHY: ALL VALVES ENDS IN 5 PERCENT OF EACH INDIVIDUAL
ORDER SHALL BE 100 PERCENT RADIOGRAPHED FOR A
LENGTH AT LEAST TWICE OF THE THICKNESS OF THE
VALVE BODY.

ACCEPTANCE SHALL BE LEVEL 1,2,3 ACC. TO ASTM E446.

FULL: BORE:

SIZE	END	TO END
(IN)	(IN)	(M M)
2	8 1/2	215.9
3	11 1/8	282.5
4	12	304.8
6	18	457.2

REDUCED BORE:

SIZE	_END_ TO	END
(IN)	(IN)	(MM)
2	8 1/2	215.9
3	11 1/8	282.5
4	12	304.8
6	18	457.2

NOTES:

- MAX. REQUIRE OPENING TORQUE SHALL BE 32 KG-M UNDER MAX. CLASS RATING PRESSURE.
- 2/ FOR BURRIED TYPE ,STEM EXTENSION SHALL BE SPECIFIED BY END USER.

MATERIAL:

BODY, COVER AND BONNET: CAST CARBON STEEL AT LEAST TOWASTM A216
GRADE WCB/WCC OR TO B.S. 1504-161 GRADE
430/480 ,OR FORGED CARBON STEEL ATTLEAST
TO ASTM A105 OR B.S. 1503 GRADE 221/550 ,
OR CARBON STEEL PLATE AT LEAST TO ASTM
A 516 GR.70.

BALL:

CAST CARBON STEEL AT LEAST TO ASTM A216
GRADE WCB/WCC. OR TO B.S.1504 -161 GRADE
430/480 ,OR FORGED CARBON STEEL TO ASTM
A 105 OR B.S. 1503 GRADE 221/550 .
BALL SHALL BE HARD CHROMIUM OR ELECTROLESS NICKEL PLATED WITH FINAL MIRROR
FINISH PREPARATION AND MIN. PLATING THICKNESS OF 25 JUM ACC. TO ASTM B 650 AND
B 656 RESPECTIVELY.

STEM:

SHALL BE FORGED CARBON STEEL AT LEAST TO ASTM A105 OR B.S. 1503 GRADE 221/550, OR BAR ALLOY STEEL AT LEAST TO AISI 4140 WITH HARD CHROMIUM OR ELECTROLESS NICKEL PLATING.

NON- METALLIC PARTS:

O-RING AND SOFT SEATS SHALL BE MADE OF SUITABLE ELASTOMER FLURO- CARBON MATERIAL (TYPE AND RELEVANT STANDARD SHALL BE SPECIFIED BY MANUFACTURER).

VALVE EXTERNAL SURFACE SHALL BE PAINTED ACC .TO MANUFACTURING STANDARD.

(TECHNICAL DETAILS SHALL BE PROVIDED BY MANUFACTURER).

SPECIFICATION FOR BALL VALVES,

WELDING ENDS, CLASS 300,

SIZE:2-6 IN

BALL VALVE, FOR GAS DISTRIBUTION AND TRANSMISSION PIPE-LINE, CARBON STEEL , BUTT WELDING ENDS, CLASS 300 , WRENCH OPERATED. $^{\frac{1}{5}}$

BODY SHALL BE ALL WELDED TYPE, ANTI STATIC DESIGN.

STEM SHALL BE OF THE ANTI BLOW OUT TYPE WITH AT LEAST TWO

OR MORE STEM SEALS IN THE DESIGN, TOP SEAL SHALL BE EASILY

REPLACEABLE UNDER PRESSURE.

ALL VALVES SHALL BE FURNISHED WITH A VALVE POSITION IND1CATOR, SHOWING OPEN POSITION IN THE DIRECTION OF FLOW AND
CLOSE POSITION PERPENDICULAR TO DIRECTION OF FLOW, THE SHUT
AND OPEN TERMS(IN ENGLISH) SHALL BE PERMANENTLY INDICATED
IN A VISIBLE LOCATION.

DESIGN , DIMENSIONS, TESTING AND MARKING ALL ACCORDING TO API 6D LATEST EDITION .

<u>WELDING ENDS</u>, CLASS 300, SIZE: 8 -12 IN.

BALL VALVE , FOR GAS DISTRIBUTION AND TRANSMISSION PIPE-LINE , CARBON STEEL , BUTT WELDING ENDS ,CLASS 300 ,BALL SHALL BE TRUNNION MOUNTED , GEAR OPERATED , BODY SHALL BE ALL WEL-DED TYPE , ANTI STATIC DESIGN , DOUBLE BLOCK AND BLEED FACI — LITY.

FIRE SAFE ACC. TO API RP 6F OR API 607 OR B.S. 5146.

STEM SHALL BE OF THE ANTI BLOW OUT TYPE WITH AT LEAST TWO OR MORE STEM SEALS IN THE DESIGN , TOP SEAL SHALL BE EASILY REPLACEABLE UNDER PRESSURE AND TO BE FITTED WITH THE FACILITY FOR INJECTION OF SEALANT .

ALL VALVES SHALL BE FURNISHED WITH A VALVE POSITION INDI-CATOR , SHOWING OPEN POSITION IN THE DIRECTION OF FLOW AND CLOSE POSITION PERPENDICULAR TO DIRECTION OF FLOW .

THE SHUT AND OPEN TERMS (IN ENGLISH) SHALL BE EMBOSSED IN A VISIBLE LOCATION .

DESIGN , DIMENSIONS , TESTING AND MARKING ALL ACC. TO API 6D LATEST EDITION .

MATERIALS:

BODY, COVER AND BONNET: CAST CARBON STEEL AT LEAST TO ASTM A 216

GRADE WCB/WCC OR TO B.S. 1504 GRADE

430 / 480 ,OR FORGED CARBON STEEL AT LEAST
TO ASTM A105 OR TO B.S. 1503 GRADE 221/550,

OR CARBON STEEL PLATE AT LEAST TO ASTM
A 516 GR.70.

BALL:

(

CAST CARBON STEEL AT LEAST TO ASTM A216 GRADE WCB/WCC OR TO B.S. 1504-161 GRADE 430 / 480 ,OR FORGED CARBON STEEL TO ASTM A105 OR B.S. 1503 GRADE 221/550 .

BALL SHALL BE HARD CHROMIUM OR ELECTROLESS NICKEL PLATED WITH FINAL MIRROR FINISH PREPARATION AND MIN .PLATING THIC - KNESS OF 25 JUM ACC. TO ASTM B 650 AND ASTM B 656 RESPECTIVELY.

STEM:

SHALL BE FORGED CARBON STEEL AT LEAST TO ASTM A 105 OR TO B.S. 1503 GRADE 221/550 OR BAR ALLOY STEEL AT LEAST TO A1S1 4140 WITH HARD CHROMIUM OR ELECTROLESS NICKEL PLATING.

NON-METALLIC PARTS:

O-RINGS AND SOFT SEATS SHALL BE MADE OF SUITABLE ELASTOMER FLURO - CARBON MATE - RIAL (TYPE AND RELEVANT STANDARD SHALL BE SPECIFIED BY MANUFACTURER).

VALVE EXTERNAL SURFACE SHALL BE PAINTED ACC. TO MANUFACTURING STANDARD .(TECHNICAL DETAILS SHALL BE PROVIDED BY MANUFACTURER).

RADIOGRAPHY: ALL VALVES ENDS IN 5 PERCENT OF EACH INDIVIDUAL ORDER SHALL BE 100 PERCENT RADIOGRAPHED FOR A LE-NGTH AT LEAST TWICE OF THE THICKNESS OF THE VALVE BODY .

ACCEPTANCE SHALL BE LEVELS 1,2,3 ACC TO ASTM E 446.

FULL BORE:

_	SIZE	END TO	END
*	(IN)	(IN)	(MM)
	8	19 3/8	492.1
	10	23 3/8	593.7
	12	25 1/2	647.7

REDUCED BORE:

SIZE	END TO	END
(IN)	(IN)	(MM)
8	19 3/8	492.1
10	23 3/8	593.7
12	25 1/2	647.7

NOTES:

1/ FOR BURRIED TYPE , STEM EXTENSION SHALL BE SPECI — FIED BY END USER.

2/ IN CASE OF REDUCED BORE ,PORT AREA SHALL BE SPECIFIED BY MANUFACTURER.

تاریخ تائید: درکمیته تخصصی لوله، اتمالات وشیر آلات مورخ تاریخ تصویب: در کمیته عالیی استاندارد مورخ

FLANGED ENDS, CLASS 300,

SIZE: 8- 12 IN.

BALL VALVE, FOR GAS DISTRIBUTION AND TRANSMISSION PIPELINE CARBON STEEL, FLANGED ENDS, R.F., C.S.F., CLASS 300, BALL SHALL BE TRUNNION MOUNTED, ANTI STATIC DESIGN, DOUBLE BLOCK AND BLEED FACILITY IN OPEN AND CLOSE POSITION, WITH SEALANT INJECTION SYSTEM.

FIRE SAFE TO API RP 6F OR API 607 OR B.S. 5146 .

STEM SHALL BE OF THE ANTI BLOW OUT TYPE WITH AT LEAST TWO OR MORE STEM SEAL IN THE DESIGN, TOP SEAL SHALL BE EASILY REPLACEABLE UNDER PRESSURE.

VALVE SHALL BE FURNISHED WITH A VALVE POSITION INDICATOR, SHOWING OPEN POSITION IN THE DIRECTION OF FLOW AND CLOSE POSITION PERPENDICULAR TO DIRECTION OF FLOW, THE SHUT AND OPEN TERMS(IN ENGLISH) SHALL BE EMBOSSED IN A VISIBLE LOCATION.

DESIGN, DIMENSIONS, TESTING AND MARKING ALL ACC .TO API 6D LATEST EDITION.

MATERIALS:

BODY , COVER AND BONNET: CAST CARBON STEEL AT LEAST TO ASTM A 216

GRADE WCB/WCC OR TO B.S. 1504 GRADE 430/480

OR FORGED CARBON STEEL AT LEAST TO ASTM

A 105 OR TO B.S. 1503 GRADE 221/550, OR CARBON

STEEL PLATE AT LEAST TO ASTM A516 GR.70.

BALL:

CAST CARBON STEEL AT LEAST TO ASTM A 216

GRADE WCB/WCC OR TO B.S. 1504-161 GRADE

430/480 ,OR FORGED CARBON STEEL AT LEAST

TO ASTM A 105 OR B.S. 1503 GRADE 221/550,

BALL SHALL BE HARD CHROMIUM OR ELECTROL-

ESS NICKEL PLATED WITH FINAL MIRROR FINISH

PREPARATION AND MIN. PLATING THICKNESS OF

25 JM. ACC. TO ASTM B 650 AND ASTM B 656

RESPECTIVELY .

STEM:

SHALL BE FORGED CARBON STEEL AT LEAST TO

ASTM A 105 OR TO B.S. 1503 GRADE 221/550,OR

BAR ALLOY STEEL AT LEAST TO AISI 4140 WITH

HARD CHROMIUM OR ELECTROLESS NICKEL PLAT-

ING .

BOLTS AND NUTS:

SHALL BE ACC. TO ASTM A193 B7/1942H.

NON-METALLIC PARTS:

SHALL BE MADE OF SUITABLE ELASTOMER FLURO-

CARBON MATERIAL (TYPE AND RELEVANT STANDARD

SHALL BE SPECIFIED BY MANUFACTURER).

VALVE EXTERNAL SURFACE SHALL BE PAINTED ACC. TO MANUFACTURING .

STANDARD (RELEVANT DETAILS SHALL BE PROVIDED BY MANUFACTURER).

FULL BORE:

SIZE	FACE TO	FACE		BODY	CONSTRUCTION
(1N)	(1N)	(MM)	•		
8	19 3/8	492.1		SP	LIT BODY
8	11	**		FU	LLY WELDED
10	$23 - \frac{3}{8}$	593.7		SP	LIT BODY
10	и .	F 9		FU	LLY WELDED
12	$25 - \frac{1}{2}$	647.7		SP	LIT BODY
12	"	11		FU	LLY WELDED

REDUCED BORE:

SIZE	FACE TO	FACE	_BODY CONSTRUCTION
(IN)	(IN)	(MM)	
8	19 $-\frac{3}{8}$	492.1	SPLIT BODY
8	*1	11	FULLY WELDED
10	$23 - \frac{3}{8}$	593.7	SPLIT BODY
10	. • • • • • • • • • • • • • • • • • • •	11	FULLY WELDED
12	$25 - \frac{1}{2}$	647.7	SPLIT BODY
12	11	11	FULLY WELDED

NOTES:

1/ IN CASE OF REDUCED BORE, PORT AREA SHALL BE SPECIFIED BY MANUFACTURER.

SPECIFICATION FOR BALL VALVES,

WELDING ENDS , CLASS 300,

SIZE : 16 - 24 IN

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BALL VALVE, FOR GAS DISTRIBUTION AND TRANSMISSION PIPE LINE, CARBON STEEL, BUTT WELDING ENDS, CLASS 300, BALL SHALL
BE TRUNNION MOUNTED GEAR OPERATED, BODY SHALL BE ALL WELDED TYPE, ANTI STATIC DESIGN, DOUBLE BLOCK AND FACILITY.

FIRE SAFE ACC. TO API RP 6F OR API 607 OR B.S. 5146.

STEM SHALL BE OF THE ANTI BLOW OUT TYPE WITH AT LEAST TWO OR MORE STEM SEALS IN THE DESIGN, TOP SEAL SHALL BE EASILY LY REPLACEABLE UNDER PRESSURE AND TO BE FITTED WITH THE FACILITY FOR INJECTION OF SEALANT.

ALL VALVES SHALL BE FURNISHED WITH A VALVE POSITION INDI-CATOR, SHOWING OPEN POSITION IN THE DIRECTION OF FLOW AND CLOSE POSITION PERPENDICULAR TO DIRECTION OF FLOW.

THE SHUT AND OPEN TERMS(IN ENGLISH) SHALL BE EMBOSSED IN A VISIBLE LOCATION.

DESIGN, DIMENSIONS, TESTING AND MARKING ALL ACC. TO API 6D LATEST EDITION.

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MATERIALS:

BALL:

BODY, COVER AND BONNET: CAST CARBON STEEL AT LEAST TO ASTM A 216

GRADE WCB/WCC OR TO B.S. 1504 GRADE 430/480

OR FORGED CARBON STEEL AT LEAST TO ASTM

A 105 OR B.S. 1503 GRADE 221/550 ,OR CARBON

STEEL PLATE AT LEAST TO ASTM A 516 GR.70.

CAST CARBON STEEL AT LEAST TO ASTM A 216

GRADE WCB/WCC OR TO B.S. 1504-161 GRADE

430 / 480 ,OR FORGED CARBON STEEL TO ASTM

A 105 OR B.S. 1503 GRADE 221/550.

BALL SHALL BE HARD CHROMIUM PLATED WITH

FINAL MIRROR FINISH PREPARATION AND MIN.

PLATING THICKNESS OF 25 UM ACC .TO ASTM

B 656 RESPECTIVELY.

STEM: SHALL BE FORGED CARBON STEEL AT LEAST TO

ASTM#A 105 OR TO B.S. 1503 GRADE 221 / 550 .

OR BAR ALLOY STEEL AT LEAST TO AISI 4140

WITH HARD CHROMIUM OR ELECTROLESS NICKEL

PLATING .

NON-METALLIC PARTS:

O-RINGS AND SOFT SEATS SHALL BE MADE OF

SUITABLE ELASTOMER FLURO-CARBON MATERI-

AL . (TYPE AND RELEVANT STANDARD SHALL BE

SPECIFIED BY MANUFACTURER).

VALVE EXTERNAL SURFACE SHALL BE PAINTED ACC. TO MANUFACTU-RING STANDARD (TECHNICAL DETAILS SHALL BE PROVIDED BY MANUFACTU-RER).

RADIOGRAPHY: ALL VALVES ENDS IN 5 PERCENT OF EACH INDIVIDUAL ORDER SHALL BE 100 PERCENT RADIOGRAPHED FOR A LENGTH AT LEAST TWICE OF THE THICKNESS OF THE VALVE BODY. ACCEPTANCE SHALL BE LEVELS 1,2,3, ACC. TO ASTM E 446.

FULL BORE :

SIZE	END TO	END
(IN)	(IN)	(MM)
16	33	838.2
20	39	990.6
22	43	1092.2
* 24	45	1143

REDUCED BORE

SIZE		END	TO END
(IN)		(IN)	(MM)
16	. '	33	838.2
20		39	990.6
22		43	1092.2
24		45	1143

NOTES:

- OTHER METHODS OF OPERATION AND RELEVANT TECHNICAL SPEC . SHALL BE SPECIFIED BY END USER.
- 2/ STEM EXTENSION , IF NECESSARY SHALL BE SPECIFIED BY END USER.

3/ IN CASE OF REDUCED BORE, PORT AREA SHALL BE SPECIFIED BY MANUFACTURER.

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تاریخ تائید : درکمیته تخصصی لوله ، اتما لات وشیر آلات مورخ تاریخ تصویب : در کمیته عالی استانداردمورخ

SPECIFICATION FOR BALL VALVES,

FLANGED ENDS, CLASS 300.

SIZE: 16 - 24 IN.

BALL VALVE, FOR GAS DISTRIBUTION AND TRANSMISSION PIPELINE, CARBON STEEL, FLANGED ENDS, R.F., C.S.F., CLASS 600, BALL SHALL BE TRUNNION MOUNTED, ANTI STATIC DESIGN, DOUBLE BLOCK AND BLEED FACILITY IN OPEN AND CLOSE POSITION, WITH SEALANT INJECTION SYSTEM.

FIRE SAFE TO API RP6F OR API 607 OR B.S. 5146.

STEM SHALL BE OF THE ANTI BLOW OUT TYPE WITH AT LEAS TWO QR MORE STEM SEAL IN THE DESIGN, TOP SEAL SHALL BE EASILY REP-

VALVE SHALL BE FURNISHED WITH A VALVE POSITION INDICATOR, SHOWING OPEN POSITION IN THE DIRECTION OF FLOW AND CLOSE POSITION PERPENDICULAR TO DIRECTION OF FLOW, THE SHUT AND OPEN TERMS (IN ENGLISH) SHALL BE EMBOSSED IN A VISIBLE LOCATION.

DESIGN, DIMENSIONS, TESTING AND MARKING ALL ACC. TO API 6 D LATEST EDITION.

MATERIALS:

BODY, COVER AND BONNET: CAST CARBON STEEL AT LEAST TO ASTM A 216

GRADE WCB/WCC OR TO B.S. 1504 GRADE 430/480

OR FORGED CARBON STEEL AT LEAST TO ASTM

A105 OR TO B.S. 1503 GRADE 221/550,

BALL:

CAST CARBON STEEL AT LEAST TO ASTM A216

GRADE WCB/WCC OR TO B.S. 1504-161 GRADE

430/480 ,OR FORGED CARBON STEEL TO ASTM

A 105 OR. B.S. 1503 GRADE 221/550 BALL SH -

ALL BE HARD CHROMIUM OR ELECTROLESS NI-

CKEL PLATED WITH FINAL MIRROR FINISH PR-

EPARATION AND MIN.PLATING THICKNESS OF 25

JM ACC. TO ASTM B 650 AND ASTM B 656 RESP-

ECTIVELY.

STEM:

SHALL BE FORGED CARBON STEEL AT LEAST TO

ASTM A 105 OR TO B.S.1503 GRADE 221/550, OR

BAR ALLOY STEEL AT LEAST TO AISI 4140 WI-

TH HARD CHROMIUM OR ELECTROLESS NICKEL

PLATING .

BOLTS AND NUTS:

SHALL BE ACC. TO ASTM A 193 B7/194 2H.

NON- METALLIC PARTS:

SHALL BE MADE OF SUITABLE ELASTOMER FLURO-

CARBON METERIAL (TYPE AND RELEVANT STAN-

DARD SHALL BE SPECIFIED BY MANUFACTURER) .

VALVE EXTERNAL SURFACE SHALL BE PAINTED ACC. TO AMNUFACTURER STANDARD(RELEVANT TECHNICAL DETAILS SHALL BE PROVIDED BY MANUFACTURER).

FULL BORE:	RE:
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FULL BORE:					METHOD OF
SIZE	FACE	TO FACE	BODY CONS	STRUCTION	OPERATION
(IN)	(1N)	(MM)			
16	33	838.2	SPLIT	BODY	ACTUATED
16	11	H	FULLY '	WELDED	11
20	39	990.6	SPLIT	BODY	
20	**	н	FULLY	WELDED	11
22	43	1092.2	SPLIT	BODY	F1
22	**	11	FULLY	WELDED	
24	45	1143	SPLIT	BODY	**
24	••	н	FULLY	WELDED	H (1)

REDUCED BORE:

	METHOD O	STRUCTION	BODY CON	TO FACE	FACE T	SIZE
,				(MM)	(IN)	(IN)
	ACTUATED	BODY	SPLIT	838.2	33	16
	11	WELDED	FULLY	11	††	16
	11	BODY	SPLIT	990.6	39	20
	п	WELDED	FULLY	**	н	20
:	11	BODY	SPLIT	1092.2	43	22
1	н	WELDED	FULLY	H	*1	22
-	**	BODY	SPLIT	1143	45	24
	††	WELDED	FULLY	ŧ1	*1	24

NOTES:

- 1/ OTHER METHOD OF OPERATION AND RELEVANT TECH. SPEC.SHALL BE SPECIFIED BY END USER.
- 2/ IN CASE OF REDUCED BORE, PORT AREA SHALL BE SPECIFIED BY MANUFACTURER.

تاریخ تائید: درکمیته تخصصی لوله ۱۰ تصالات وشیر آلات مورخ تا ریخ تصویب: در کمیته عالی استاندارد مورخ

Ball valve data sheet

General											
Manufacturer	:										
Inquiry no:			Item no.			Drawing no.		Qι	antity		
Nominal size	:		Class rating	:		☐ Ambient temperature:	-29^{0} C to	De	sign temp:		
						+60°C for valve & actu	ator	De	sign pre.:		
Flow media:											
Dimensional & sectional drawing No: (attached) Ball valve model:											
Original country of raw material and complete valve :											
☐ Original technical catalogue of main manufacturer (attached)											
Specifications											
Body construct		☐ 2 piece body			☐ Upper stem seal replaceable			☐ Stem extension			
	\square All welded \square 3		piece body	unde	under full line pressure			Stem extension			
	☐ Split body				☐ API monogram certificate			from valve centerline(mm):			
☐ Top entry	J Top entry		(atta	(attached copy)							
Ball type		Bore ty			☐ 2 years spare part list			End connection:			
Trunnion mo	Junica	□ Ful	(attach		ched	1)	☐ Butt welded ends				
	☐ Floating ☐ Reduced							☐ Flanged ends			
☐ Pivot mour	Inted Port area percentage:			☐ Screwed ends							
☐ Anti-static Device		☐ Anti – blow Out			☐ Double block & Bleed in open			Secondary Sealing:			
	S	stem			&Close position			For stem Yes□ No□			
l control position					For seat Yes □ No□						
☐ Fire safe approval test report Relevant codes & standard:											
Support requi	irement :	□R	ibs 🗆 L	egs							
Dimensions											
X 1 C	<u> </u>	`		F1							
Valve face to face (mm):					Flange size:						
Flange standard:					Flange class rating:						
□ ANSI B 16.5					☐ Face finishing (raised face)						
□ MSS-SP-44 *Matching pipe size:											
U 1 .											
*Matching pipe grade : *Matching pipe wall thickness:											
☐ Beveled end Acc to ANSI B 31.8											
Develed en	id McC to	111101	1 1 31.0								
Material											
Machiai											
Body &	Ends:		Ball:	Stem:	Sc	oft seat material for seat:					
Cover:									Bolt & nut:		
					Sc	oft seat material for stem:					
Coating											
External coating of body:						External coating of ball:					
Type & standard:					Type & standard:						
Thickness:						Thickness:					

Valve operation									
□ Wrench	☐ Position	Gearbox with hand –	☐ Gas over oil type						
Length(mm):	indicator	wheel	actuator						
Max force under full deferential	Max & min	☐ Horizontal	Max & Min operating						
pressure :	valve stem	☐ Vertical	pressure :						
	torque:	☐ Gear operated heavy	☐ Remote control						
		duty acc to IGS-M-PL-09	☐ Automatic line break						
		Hand -well dia (mm):	system (if applicable)						
			LB setting range (0.3-6						
			bar):						
			Manufacturer:						
Other requirements									
□ Drain connection □ Vent system									
NDE requirements :		☐ Ends radiography (percentage)							
		for casting body							
□ NACE MR 0175/ISO 15156									
☐ Third party witness of processes / test									
Deviation from spec :									

- * Shall be filled by end user
- 1- This data sheet should be completed for each item by manufacturer.
- 2- Any deviation shall be clearly specified by manufacture.
- 3- This data sheet shall be signed and stamped by manufacturers, authorized employee.
- 4- Manufacturers shall confirm SPIR form will be sent at the order stage

- برای سازندگان داخلی تائیدیه ساخت مطابق استاندارد $API\,6D$ توسط بازرس معتبر کفایت می کند .