

HIRGAN PENERGY

عمومي و مشترك

شماره پیمان: 9184 – 073 – 053

	SPECIFICATION FOR MANUAL VALVES							
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه	
BK	GNRAL	PEDCO	000	PI	SP	0009	D01	

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طرح نگهداشت و افزایش تولید 27 مخزن

SPECIFICATION FOR MANUAL VALVES

نگهداشت و افزایش تولید میدان نفتی بینک

Rev.	Date	Purpose of Issue/Status	Prepared by:	Checked by:	Approved by:	CLIENT Approval
D00	AUG. 2021	IFC	M.Asgharnejad	M.Fakharian	Sh.Ghalikar	
D01	OCT. 2022	AFD	M.Noori	M.Fakharian	M.Mehrshad	

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Status:

IDC: Inter-Discipline Check
IFC: Issued For Comment
IFA: Issued For Approval
AFD: Approved For Design
AFC: Approved For Construction
AFP: Approved For Purchase
AFQ: Approved For Quotation
IFI: Issued For Information

AB-R: As-Built for COMPANY Review

AB-A: As-Built -Approved



053 - 073 - 9184

نگهداشت و افزایش تولید میدان نفتی بینک سطح الارض و ابنیه تحت الارض

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شماره پیمان:

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 نسخه
 سریال
 نوع مدر ک
 رشته
 تسهیلات
 صادر کننده
 بسته کاری
 پروژه

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1.0 INTRODUCTION

Binak oilfield in Bushehr province is a part of the southern oilfields of Iran, is located 20 km northwest of Genaveh city.

With the aim of increasing production of oil from Binak oilfield, an EPC/EPD Project has been defined by NIOC/NISOC and awarded to Petro Iran Development Company (PEDCO). Also PEDCO (as General Contractor) has assigned the EPC-packages of the Project to "Hirgan Energy - Design and Inspection" JV.

GENERAL DEFINITION

The following terms shall be used in this document.

CLIENT: National Iranian South Oilfields CLIENT (NISOC)

PROJECT: Binak Oilfield Development – General Facilities

EPD/EPC CONTRACTOR: Petro Iran Development Company (PEDCO)

EPC CONTRACTOR: Joint Venture of : Hirgan Energy - Design &

Inspection(D&I) Companies

VENDOR: The firm or person who will fabricate the equipment or

material.

EXECUTOR: Executor is the party which carries out all or part of

construction and/or commissioning for the project.

THIRD PARTY INSPECTOR (TPI): The firm appointed by EPC CONTRACTOR and

approved by GC & COMPANY (in writing) for the

inspection of goods.

SHALL: Is used where a provision is mandatory.

SHOULD: Is used where a provision is advisory only.

WILL: Is normally used in connection with the action by

COMPANY rather than by an EPC/EPD

CONTRACTOR, supplier or VENDOR.

MAY: Is used where a provision is completely discretionary.



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GUIDANCE FOR USE OF THIS DOCUMENT

The amendments/supplement to the related IPS Standard(s) given in this document are directly related to the equivalent sections or clauses in the IPS Standard(s). For clarity, the section and paragraph numbering of the IPS Standard(s) has been used as long as possible. Where clauses in IPS are referenced within this document, it shall mean those clauses are amended by this document. Clauses in IPS" that are not amended by this document shall remain valid as written.

For ease of reference, the clause or section numbering of the related IPS Standard(s) has been used throughout this specification. For the purpose of this specification, the following definitions shall hold:

Sub. (Substitution): The IPS Std. Clause is deleted and replaced by a new clause.

Del. (Deletion): The IPS Std. Clause is deleted without any replacement.

Add. (Addition): A new clause with a new number is added.

Mod. (Modification): Part of the IPS Std. Clause is modified, and/or a new description and/or condition is added to that clause.

2.0 SCOPE AND FIELD OF APPLICATION

This specification gives amendment and supplement IPS-M-PI-110(1), "Material and Equipment Standard for Valves engineering "for the design, manufacture, inspection and testing of valves intended in this project. This specification shall apply only to conventional valves such as ball, globe, check... made of carbon steel, stainless steel.





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PART ONE GENERAL REQUIREMENTS





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1.0 GENERAL

1.1. Scope

No amendments or supplements are to state.

1.2. Conflict Requirements (Sub.)

In case of any conflict between the project documents, the following order of precedence shall apply.

- 1. Requisition / Purchase Order
- 2. Data Sheets
- 3. This Document
- 4. Drawings & Other Project Documents
- 5. Project Referred Documents Listed Above
- 6. Iranian Petroleum Standards (IPS)
- 7. Other Local Codes and Standards
- 8. International Codes and Standards

1.3. References

1.3.1. IPS Standards(Add.)

• IPS-E-PI-221 (1) Engineering Standard for Piping Material Selection

IPS-M-PI-110 (1)
 Material & Equipment standards for Valves

1.3.2. The Project Documents (Add.)

•	BK-GENRAL-PEDCO-000-PI-SP-0011	Specification for Welding Piping System
•	BK-GCS-PEDCO-120-PI-SP-0001	Piping Material Specification
•	BK-GENRAL-PEDCO-000-PI-SP-0016	Specification for Piping Design & Plant Layout
•	BK-GENRAL-PEDCO-000-PI-SP-0006	Specification for Painting
•	BK-GENRAL-PEDCO-000-PI-SP-0010	Specification for Plant Piping Systems Pressure Testing

BK-GENRAL-PEDCO-000-PL-DC-0001 Pipeline Design Criteria

BK-GENRAL-PEDCO-000-PL-SP-0007 Specification for Pipeline Coating



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Specification for Transportation Pipelines Pressure Testing

1.4. Environmental Data (Add.)

BK-GENRAL-PEDCO-000-PL-SP-0008

Refer to "Process Basis of Design; Doc. No. BK-GNRAL-PEDCO-000-PR-DB-0001".

2.0 DESIGN

2.1. Dimensions

The end of valves shall be as per project piping material specification.

2.1.2. (Mod.)

- a) Steel flanges up to DN 600 (NPS 24) per ANSI/ASME 16.5. (Mod.)
- b) Steel flanges over DN 600 (NPS 24) per MSS-SP-44. (Mod.)
- c) (Del.)
- d) (Del.)

2.1.3. (Mod.)

Socket weld ball valves shall be provided with 100 mm long plain end nipples (each side) made of either an integral forged nipple or of a socket welded one, of materials complying with the relevant Piping Material Classes requirements, unless otherwise specified on the Valve Data Sheets. Typical requirements are shown on the following sketch: (Add.)



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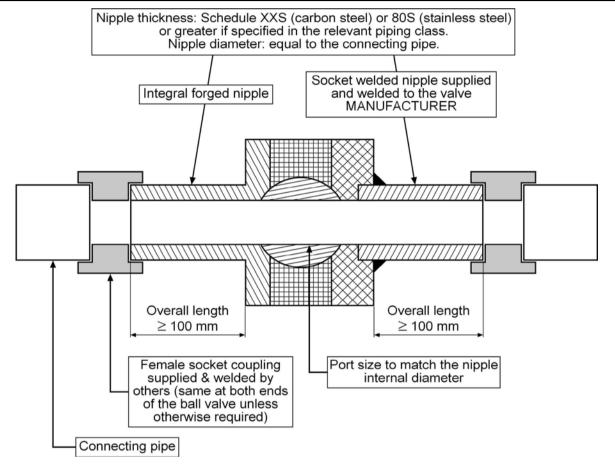


Figure 8.2.3 - Typical requirements for nipples on socket-welded end ball valves

2.1.4. (Mod.)

- a) Steel valves per ANSI/ASME-B 1.20.1. (Mod.)
- b) (Del.)
- c) (Del.)

2.1.5. (Mod.)

- a) Steel per ANSI/ASME B 16.34 or related standards of valves as applicable (Mod.)
- b) (Del.)



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- c) (Del.)
- d) (Del.)
- e) (Del.)

2.1.6. (Del.)

Gear operator shall be provided for large valves requiring great torque for operation. Valves to requiring gear operator are in accordance with the piping material specification. (Add.)

VALVE	CLASS & SIZE
	150# - 14" & LARGER
	300# - 14" & LARGER
GATE VALVE	600# - 12" & LARGER
	900# - 8" & LARGER
	1500# & 2500# - 6" & LARGER
	150# - 8" & LARGER
	300# - 8" & LARGER
GLOBE VALVE	600# - 6" & LARGER
	900# - 4" & LARGER
	1500# & 2500# - 4" & LARGER
	150# - 8" & LARGER
BALL VALVE*	300# - 6" & LARGER
	600# - 4" & LARGER
51116.1/4117	150# - 6" & LARGER
PLUG VALVE	300# - 6" & LARGER

^{* 3&}quot; and larger size of ball valves shall be trunnion mounted type.





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3.0 MATERIAL

3.1. (Del.)

3.2. Material Composition of Welding End Valves (Mod.)

- **b)** (Del.)
- c) Austenitic stainless steel (Mod.)

The valve bodies and bonnets shall undergo a heat treatment ("Annealing") in accordance with the corresponding ASTM standards. When type 316 stainless flanged valves in material to ASTM A 351 Gr. CF8M are specified, forged materials to ASTM A 182 Gr. F316 are acceptable substitutes. For stainless steel lines stem & seat of valves shall be SS 316L. (Add.)

All the stainless steel valves in this project shall be socket weld for size up to 2" and flanged end for 2" and above as per project piping material specification.

3.5 Materials for pressure-containing and pressure-controlling parts and bolting shall meet the requirements of NACE MR 0175/ISO 15156 if sour service is specified. (Mod.)

Where pressure containing parts have been specified as forged, substitution of casting is not permitted without prior approval of the Company.

4.0 INSPECTION (MOD.)

4.1 Quality Control (Add.)

The inspection and tests necessary to confirm that the products meet the requirements of the standards, specifications and of the Purchase Order shall be carried out in the

Manufacturer's plant by personnel of the plant. These specially qualified personnel shall be independent of the production department of the plant.

Products that are to specifications shall be guaranteed by an adequate inspection certificate, conformity certificate, material certificate, test certificate, etc.

If the Manufacturer does not have the necessary means of examination, these tests shall be carried out by an agency and at a place approved by the Company or by the Engineering Company.

4.2 Visual Examination (Add.)

All valves must be 100 % visually inspected as per the API 598 and the MSS SP 55.



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4.3 Special Examinations (Add.)

For all valves 6" and larger in pressure class 600 and higher, castings shall be examined in accordance with ASME B 16.34 (Requirements for special class valves, examination of steel castings) and MSS SP 55.

For ferrous materials, Magnetic Particle examination shall be used in preference to Dye Penetrant.

A full radiographic inspection shall be carried out on 100 % of the bevelled areas of all weld-end valves of sizes 2" and above, and on all butt-welded joints, to prove that these areas are free from any defects. Bevelled area of valve ends made of forgings may be inspected by ultrasonic testing instead of radiography.

Additionally, any weld (including fillet welds) on valve bodies, regardless of size or pressure class, shall be 100 % examined by dye penetrant testing.

Radiographic defect acceptance levels on welds shall be in accordance with the following:

- Welds in forged or other wrought materials: ASME B 31.3 Table 341.3.2A, for normal fluid service (although the inspection level must be 100 %, and not "spot or random"); however, acceptance criteria for inspection of welds in valves specified for "severe cyclic services" shall be those for "severe cyclic conditions" of the Table 341.3.2A.
- Welds in castings ASTM E 446 up to 25 mm wall: level 1; above 25 mm wall: level 2

5.0 TESTING (MOD.)

5.1 Pressure Tests

5.1.1 General

All valves (i.e., 100 % of the supply) shall undergo pressure tests in accordance with the requirements of the API 6D Specification, completed by the API 598. ("Spot Testing" is not acceptable.) Valves not covered by these standards shall be tested in accordance with MSS SP 61.

The Manufacturer shall submit for the Company's approval its detailed testing procedure for each type of valves, including each pressure class and size. This procedure must be in full accordance with the present specification requirements and the applicable codes.



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Test certificates must be supplied for each valve of the supply, which must accordingly be identified by an appropriate fabrication numbering system.

5.1.2 Test medium

a) Water tests

Testing medium shall be clean, inhibited, fresh water. Stainless steel valves shall be tested using inhibited fresh water having a maximum chloride content of 50 ppm. This also applies to valves fabricated with some parts made of stainless steel. The temperature of the test must be a minimum of +10°C. In case of non-impact tested body materials, the minimum temperature of the test medium shall be +16°C.

After testing with water, all valves shall be thoroughly dried to prevent possible corrosion from the water.

b) Gas tests

Gas tests shall be monitored using soap bubble method where zero leaks are either expected or requested. Where leak rates other than zero are specified, the leakage rate shall be measured using a flow meter calibrated with the gas used for testing.

5.1.3 Acceptance criteria

High-pressure hydrostatic seat test leakage rates shall comply with API 6D. The following criteria apply to gas tests only (including air, nitrogen, etc.):

- External leakage (maximum allowable leak rate from each source): 5 SCF/annum (0.27 SCC/min.)
- Seat leakage: according to the table 5.1.3 hereafter.

Table 5.1.3 - Leakage rates acceptance criteria for closure tests with gas (All values are in SCC/cm dia/min.)

	Testing at	ambient temperature	
		Low pressure tests (all sizes)	High pressure tests (all sizes)
Soft	Valve pressure class ≤ 600	0 leakage	0.5
Metallic	Valve pressure class ≤ 600	o leakage	2





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5.2 Toughness Tests

The toughness tests to be carried-out on the valves (if required) are normally shown on the Purchase Order documents.

When these tests are required, they shall be carried out in conformity with the requirements of ASTM A 370 and at the temperature required for the grade of material.

5.3 Hardness Tests

If specified in the Purchase Order documents, hardness tests shall be carried out on each valve body (e.g. for compliance with the NACE standards in case of H2S service).

6.0 REPAIRS (MOD.)

- a) Repairs may be local or total when non-conforming conditions are found. Defects in excess of acceptance standard shall be removed by reducing weld overlay thickness and shall be repaired by re-welding. (Add.)
- b) All excavations shall be dye penetrant inspected prior to the start of repair welding in order to confirm the complete removal of defects. (Add.)
- c) Repair by re-welding shall be performed in accordance with a written procedure. The following information must be given in these procedures: (Add.)
 - Method of removing defects
 - Requirements related to the shape of the excavation
 - Inspection of repair prior to re-welding
 - Applicable welding procedure and qualification tests
 - Inspection after welding.

7.0 FINISHING, PAINTING (AND/OR COATING) (MOD.)

After protection of all machined and threaded external surfaces and covering all valve(s) nozzles and openings, the equipment shall be blast cleaned to Swedish standard SIS-05-5900 grade, SA 2½. This shall be followed by the purchaser Specification for Painting with Doc. No. 92216-PRU-PI-SP-303. (Mod.)





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8.0 IDENTIFICATION

No amendments or supplements are to state.

9.0 PACKAGING (MOD.)

The valves must be packed in sea packing, waterproof. Packing must be suitable for all stages of transport (rail, road, air, etc.).(Add.)

10.0 HANDLING AND SHIPPING (MOD.)

No amendments or supplements are to state.

11.0 GUARANTEE

No amendments or supplements are to state.

12.0 REJECT CAUSES

No amendments or supplements are to state.

13.0 DOCUMENTATIONS AND LANGUAGE

No amendments or supplements are to state.

14.0 DRAWING AND DATA

No amendments or supplements are to state.





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PART TWO GATE VALVES





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1 SCOPE

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2 DESIGN AND MANUFACTURING (MOD.)

- **2.1** All classes of carbon and Ferritic alloy steel DN 15 (NPS 1/2) and higher, stainless steel, flanged and butt welding ends double disc and wedge gate valve Per API-STD-600 or API-STD-6D as Applicable. (Mod.)
- **2.4** PN 130 (ANSI 800), Carbon, Ferritic alloy and stainless steel, threaded and socket welding ends, wedge gate valves up to DN 50 (NPS 2) Per : API-STD. 602.(Mod.)
- 2.8 (Del.)
- **2.9** (Del.)
- 2.10 (Del.)
- 2.11 (Del.)
- 2.12 (Del.)
- **2.13** (Del.)
- 2.14 (Del.)

3 SUPPLEMENT TO REFERENCE STANDARDS

SECTION ONE SUPPLEMENT TO API-6D (2008)(MOD.)

7.28 UNDERGROUND VALVES (DEL.)

SECTION TWO SUPPLEMENT TO API-600 (2009)

No amendments or supplements are to state.

SECTION THREE SUPPLEMENT TO API-602 (2009) (MOD.)

No amendments or supplements are to state.





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پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه			
BK	GNRAL	PEDCO	000	PI	SP	0009	D01			

PART THREE GLOBE VALVES





عمومی و مشترک

	شماره پیمان:
053 - 073 -	9184

	SPECIFICATION FOR MANUAL VALVES								
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه		
BK	GNRAL	PEDCO	000	PI	SP	0009	D01		

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عمومی و مشترک

شماره پیمان: 9184 – 073 – 053

	SPECIFICATION FOR MANUAL VALVES								
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه		
BK	GNRAL	PEDCO	000	PI	SP	0009	D01		

شماره صفحه: 22 از 32

1.0 SCOPE

No amendments or supplements are to state.

2.0 DESIGN AND MANUFACTURING (MOD.)

- 2.1 Carbon and alloy steel flanged ends and butt-welding ends Per BS 1873. (Mod)
- **2.2** Carbon and alloy steel socket welding, threaded, flanged and butt welding ends up to DN50 per API 602. (Mod.)
- 2.3 (DEL.)
- 2.4 (DEL.)

3.0 SUPPLEMENT TO REFERENCE STANDARD (BS 1873-1975)

No amendments or supplements are to state.





شماره صفحه: 23 از 32

عمومی و مشترک

شماره پیمان: 9184 – 073 – 053
 SPECIFICATION FOR MANUAL VALVES

 نسخه سریال نوع مدر ک رشته تسهیلات صادر کننده بسته کاری پروژه

 BK
 GNRAL
 PEDCO
 000
 PI
 SP
 0009
 D01

PART FOUR PLUG VALVES





عمومی و مشترک

	پیمان:	شماره
053 – 073 -	- 918	84

	SPECIFICATION FOR MANUAL VALVES									
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه			
BK	GNRAL	PEDCO	000	PI	SP	0009	D01			

شماره صفحه: 24 از 32

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عمومي و مشترك

	شماره پیمان:
053 – 073	_ 9184

	SPECIFICATION FOR MANUAL VALVES									
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه			
BK	GNRAL	PEDCO	000	PI	SP	0009	D01			

شماره صفحه: 25 از 32

1.0 SCOPE

No amendments or supplements are to state.

2.0 DESIGN AND MANUFACTURING (MOD.)

- 2.1 Steel valves, flanged and butt welding ends Per API-STD-599. (Mod.)
- **2.4** (DEL.)
- **2.5** (DEL.)

3.0 SUPPLEMENT TO API-6D (2008)

No amendments or supplements are to state.





شماره صفحه: 26 از 32

عمومی و مشترک

شماره پیمان:

053 - 073 - 9184

	SPECIFICATION FOR MANUAL VALVES								
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه		
BK	GNRAL	PEDCO	000	PI	SP	0009	D01		

PART FIVE BUTTERFLY VALVES (DELETED)





شماره صفحه: 27 از 32

عمومی و مشترک

شماره پیمان:

053 - 073 - 9184

SPECIFICATION FOR MANUAL VALVES							
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
BK	GNRAL	PEDCO	000	PI	SP	0009	D01

PART SIX CHECK VALVES





عمومی و مشترک

شماره پیمان: 9184 – 073 – 053

	SPECIFICATION FOR MANUAL VALVES						
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
BK	GNRAL	PEDCO	000	PI	SP	0009	D01

شماره صفحه: 28 از 32

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عمومی و مشترک

شماره پیمان:
053 - 073 - 9184

SPECIFICATION FOR MANUAL VALVES							
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
BK	GNRAL	PEDCO	000	PI	SP	0009	D01

شماره صفحه: 29 از 32

1.0 SCOPE

No amendments or supplements are to state.

2.0 DESIGN AND MANUFACTURING (MOD.)

- **2.1** Steel swing type pipeline check valves flanged and butt welding ends or wafer type: per API-594. (Mod.)
- **2.3** Steel, screwed and socket welding ends, piston, ball, disk type up to DN 50 (NPS 2) BS-1868, BS-5352 as Applicable. (Mod.)
- **2.4** Steel, flanged and butt welding ends, swing type check valve up to DN 600 (NPS 24) BS-1868 up to DN 50 (NPS 2) BS-5352. (Mod.)
- 2.5 (Del.)
- 2.6 (Del.)
- **2.7** (Del.)

3.0 SUPPLEMENT TO REFERENCE STANDARD (API 6D-2008)

No amendments or supplements are to state.





شماره صفحه: 30 از 32

عمومی و مشترک

شماره پیمان:

053 - 073 - 9184

SPECIFICATION FOR MANUAL VALVES							
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
BK	GNRAL	PEDCO	000	PI	SP	0009	D01

PART SEVEN
BALL VALVES





عمومی و مشترک

	پیمان:	شماره
053 – 073 -	- 918	4

SPECIFICATION FOR MANUAL VALVES							
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
BK	GNRAL	PEDCO	000	PI	SP	0009	D01

شماره صفحه: 31 از 32

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عمومی و مشترک

	پیمان:	نماره
053 – 073 –	- 918	4

	SPECIFICATION FOR MANUAL VALVES						
پروژه	بسته کاری	صادر کننده	تسهيلات	رشته	نوع مدرك	سريال	نسخه
BK	GNRAL	PEDCO	000	PI	SP	0009	D01

شماره صفحه: 32 از 32

1.0 SCOPE

No amendments or supplements are to state.

2.0 DESIGN AND MANUFACTURING (MOD.)

- **2.1** Steel ball valves flanged and butt welding ends.. (Mod.)
- **2.2** Steel ball valves, threaded ends and socket welding ends:. (Mod.)
- 2.3 (Del.)

3.0 SUPPLEMENT TO REFERENCE STANDARD

No amendments or supplements are to state.

SECTION ONE

SUPPLEMENT TO API-6D (2008)

2.16 Buried Valves (DEL.)

SECTION TWO

SUPPLEMENT TO BS/EN ISO 17292 (1986, AMDT 1990)

1. SCOPE (MOD.)

Add the following paragraphs to existing clause:

This specification applies to flanged, butt welded and threaded end ball valves, reduced and full bore, soft and metal seated, carbon steel valves in nominal size and PN (ANSI) rating, generally in accordance with BS/EN ISO 17292. This document is a supplement to the pertaining design standard and shall be governing where conflict occurs. (Mod.)