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National Iranian Gas Co.

مدیریت پژوهش و فناوری

Research and Technology Management

امور تدوین استانداردها

Standardization Division

IGS

Iranian Gas Standards

Specification for :

مشخصات فنی :

Non-Industrial Domestic Switches

سوئیچ های خانگی

APPROVED

FOREWORD

This standard is intended to be mainly used by **NIGC** and contractors and has been prepared on interpretation of recognized standards , technical documents , knowledge ,backgrounds and experiences in gas industries at national and international levels.

Iranian Gas Standards (**IGS**) are prepared , reviewed and ammended by technical standard committees within NIGC Standardization Div. and submitted to the **NIGC's "STANDARDS COUNCIL"** for approval .

IGS Standards are subject to revision , amendment or withdrawal , if required , thus the latest edition of **IGS** shall be checked/inquired by **NIGC** users .

This standard must not be modified or altered by the end users within **NIGC** and her contractors. Any deviation from normative references and/or well known manufacturers specifications must be reported to Standardization div.

Any comments from concerned parties on **NIGC** distributed **IGS** are welcome to technical standards committees and will receive serious attention and consideration should a revision to standards is recommended .

GENERAL DEFINITIONS :

Throughout this standard the following definitions , where applicable , should be followed :

1- "**STANDARDIZATION DIV.**" has been organized to deal with all aspects of industrial standards in NIGC . Therefore , all queries for clarification or amendments are requested to be directed to the mentioned div.

2- "**COMPANY** " : refers to national iranian gas company .

3- "**SUPLIER**" : refers to a firm who will supply the service , equipment or material to igs specification whether as the prime producer or manufacturer or a trading firm .

4- "**SHALL**" : is used where a provision is mandatory.

5- "**SHOULD**" : is used where a provision is advised only.

6- "**MAY**" : is used where a provision is completely discretionary.

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پیشگفتار

- ۱- این استاندارد/دستورالعمل بمنظور استفاده اختصاصی در شرکت ملی گاز ایران و شرکتهای فرعی وابسته تهیه شده است.
- ۲- شرکت ملی گاز ایران در مورد نیازهای عمومی از استانداردهای وزارت نفت (IPS) و در مورد نیازهای اختصاصی از استانداردهای اختصاصی خود (IGS) استفاده می نماید.
- ۳- استانداردهای شرکت ملی گاز ایران (IGS) توسط کمیته های تخصصی استاندارد متشکل از کارشناسان بخش های مختلف و یا مشاور تهیه می شود و توسط شورای استاندارد (منتخب هیئت مدیره شرکت ملی گاز ایران) به تصویب میرسند.
- ۴- در تنظیم متن استانداردهای (IGS) از کلیه منابع شناخته شده استاندارد، اطلاعات فنی - تخصصی مربوط به صنایع گاز دنیا، مشخصات فنی تولیدات سازندگان معتبر جهانی و نیز از نتیجه تحقیقات و تجربیات کارشناسان و متخصصان داخلی بر حسب مورد استفاده می شود. همچنین بمنظور استفاده هر چه بیشتر از تولیدات داخلی قابلیت های سازندگان داخلی نیز مورد توجه قرار میگیرد.
- ۵- استانداردها از طریق پایگاه اینترنتی شرکت * و یالوح فشرده (CD) در اختیار واحدها و کاربران قرار می گیرد .
- ۶- استانداردها بطور متوسط هر ۵ سال یکبار و یادر صورت ضرورت زودتر، مورد بازنگری و بروزرسانی قرار میگیرند. بنابراین کاربران باید همیشه آخرین نگارش را مورد استفاده قرار دهند.
- ۷- هرگونه نظر و یا پیشنهاد اصلاح در مورد استانداردها مورد استقبال و بررسی قرار خواهد گرفت و در صورت تأیید، استاندارد مربوطه نیز مورد تجدیدنظر قرار خواهد گرفت .

تعاریف عمومی

در متن استانداردهای (IGS) از تعاریف و اصطلاحات زیر استفاده میشود.

- ۱- "شرکت" (COMPANY): منظور از شرکت "شرکت ملی گاز ایران" و یا شرکتهای فرعی وابسته میباشد.
- ۲- "فروشنده" (SUPPLIER/VENDOR): به فرد یا موسسه ای اطلاق میگردد که تعهدی را نسبت به شرکت تقبل نموده است.
- ۳- "خریدار" (PURCHASER): منظور از خریدار "شرکت ملی گاز ایران" و یا شرکتهای فرعی وابسته میباشد.
- ۴- "SHALL": در مواردی بکار برده میشود که انجام خواسته مورد نظر اجباری است
- ۵- "SHOULD": در مواردی بکار برده میشود که انجام خواسته مورد نظر ترجیحی و در عین حال اختیاری است
- ۶- "MAY": در مواردی بکار برده میشود که انجام کار به شکل مورد بحث نیز قابل قبول میباشد

NON-INDUSTRIAL DOMESTIC SWITCHES

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- 1- SWITCH , DOMESTIC , 250V AC-/D C., TO IEC 669 –1 AND BS 3676 , FLUSH MOUNTING, ROCKER OPERATED , RECTANGULAR SHAPE , COVER PLATE MADE OF MOULDED INSULATING MATERIAL TO SECTION 3 OF BS 3676 , IVORY COLOUR, PROVIDED WITH AT LEAST TWO FIXING SCREWS ON ITS MOUNTING PLATE.

SINGLE POLE , ONE WAY , ONE GANG

<u>MESC</u>	<u>UNIT</u>	<u>DES.</u>
1-1	NO	5A
1-2	“	15 A
	SINGLE POLE, ONE WAY , TWO GANG	
1-3	NO	5A
1-4	“	15 A
	SINGLE POLE, ONE WAY , THREE GANG	
1-5	“	5 A
1-6	“	15A
	SINGLE POLE, TWO WAY , ONE GANG	
1-7	“	5 A
1-8	“	15 A
	SINGLE POLE, TWO WAY , TWO GANG	
1-9	“	5A
1-10	“	15 A

SUPPLIERS: M.K. MEM , SIEMENS. EQUIVALEN.

- 2- SWITCH , DOMESTIC , 250 V AC./D.C , 10A , TO IEC 669 –1 , AND DIN 49200

FLUSH MOUNTING , ROCKER OPERATED , RECTANGULAR SHAPE, COVER PLATE, MADE OF A MOULDED INSULATING MATERIAL TO DIN 49200 , IVORY COLOUR , WITHOUT FIXING SCREWS ON ITS MOUNTING PLATE (SUITABLE FOR ROUND SWITCH BOXES).

<u>MESC</u>	<u>UNIT</u>	<u>DES.</u>
2-1	NO	SINGLE POLE , ONE WAY , ONE GANG
2-2	“	SINGLE POLE , ONE WAY , TWO GANG
2-3	“	SINGLE POLE , ONE WAY , THREE GANG
2-4	“	SINGLE POLE , TWO WAY , ONE GANG
2-5	“	SINGLE POLE , TWO WAY , TWO GANG

SUPPLIERS : IRAN RASHT, ALBORZ , OR NIGC APPROVER EQUIVALENT

- 3- SWITCH , NON-INDUSTRIAL , 250V AC/D.C. , TO IEC 669-1 AND/OR BS 3676 , SPLASH – PROOF WITH A PROTECTIONS DEGREE OF NOT LESS THAN IP 44, SURFACE MOUNTING , ROCKER OPERATED , RECTANGULAR SHAPE , COVER PLATE MADE OF A MOULDED INSULATING MATERIAL TO SECTION 3 OF BS 3676 IVORY COLOUR, ONE POLE , ONE WAY , ONE GANG

<u>MESC</u>	<u>UNIT</u>	<u>DES.</u>
3-1	NO	10 A,SUITABLE FOR 20MM THREADED CONDUIT, TOP OR BOTTOM ENTRY
3-2	“	10 A, SUITABLE FOR CABLL BOTTOM, ENTRY

SUPPLIERS :M.K. MEM , SIEMENS

- 4- BELL PUSH SWITCH , DOMESTIC , 250V AC/DC TO IEC 669-1 AND /OR BS 3676 , FLUSH MOUNTING, ROCKER OPERATED, RECTANGULAR SHAPE , COVER PLATE MADE OF A MOULDED INSULATING MATERIAL TO SECTION 3 OF BS 3676 , IVORY COLOUR, PROVIDED WITH AT LEAST TWO FIXING SCREWS ON ITS MOUNTING PLATE.**

<u>MESC</u>	<u>UNIT</u>	<u>DES.</u>
4-1	NO	5A

SUPPLIERS: IRAN RASHT, ALBORZ.

- 5- BELL PUSH SWITCH , DOMESTIC , 250 V AC/DC, TO IEC 669-1 AND/OR DIN 49200 , FLUSH MOUNTING , ROCKER OPERATED , RECTANGULAR SHAPE , COVER PLATE MADE OF A MOULDED INSULATING MATERIAL TO DIN 49200 , IVORY COLOUR, WITHOUT FIXING SCREWS ON ITS MOUNTING PLATE. ONE POLE , ONE WAY , ONE. GANG.**

<u>MESC</u>	<u>UNIT</u>	<u>DES</u>
5-1	NO	5A

- 6- SOCKET OUTLETS, DOMESTIC 250V AC TO BS 1363 FLUSH MOUNTING 2 POLE RECTANGULAR WITH EARTH CONTACT, SUITABLE FOR 3-PIN PLUGS , FITTED WITH SAFETY SHUTTER, MOULDED INSULATED MATERIAL , PLASTIC COVER PLATE ,IVORY COLOUR.**

SUPPLIER : MK, MEM , SIEMENS, OR NIGC APROVER EQUIVALENT

<u>MESC</u>	<u>UNIT</u>	<u>DES</u>
6-1	NO	13A ONE GANG

- 7- SOCKET OUTLETS, DOMESTIC 250V AC TO IEC 83 AND/OR DIN 49440 & VDE 0620 FLUSH MOUNTING , 2 POLE ROUND, WITH SIDE EARTHING CONTACTS, RECTANGULAR SHAPE COVER & FLUSH PLATE 80 X 80 MM OF MOULDED INSULATING MATERIAL , IVORY COLOUR,

<u>MESC</u>	<u>UNIT</u>	<u>DES</u>
7-1	NO	10/16A , ONE GANG

- 8- SWITCHED SOCET-OUTLET, NON-INDUSTRIAL, 250V AC/DC , TO BS 1363 , FLUSH MOUNTING, SINGLE POLE SWITCHED ,WITH EARTHING CONTACTS, RECTANGULAR SHAPE SUITABLE FOR 3-PIN PLUGS, FITTED WITH SAFETY SHUTTER, MOULEDE INSULATED MATERIAL, PLASTIC COVER PLATE , IVORY COLOUR.

<u>MESC</u>	<u>UNIT</u>	<u>DES</u>
8-1	NO	13A,ONE WAY, ONE GANG
8-2	NO	13A ,ONE WAY,TWO GANG

- 9- SWITCHED SOCKET-OUT LET ,NON- INDUSTRIAL, 250V AC/DC, TO DIN 49440 & VDE 0620 , FLUSH MOUNTING, SINGLE , POLE SWITCHED, WITH SIDE EARTHING CONTACTS, ROUND POLE , SUITABLE FOR 2-PIN PLUGS , RECTANGULAR SHAPE COVER & FLUSH PLATE MADE OF A MOULDED INSULATED MATERIAL , PLASTIC COVER PLATE, IVORY COLOUR.

9-1 10/16A , ONE WAY, ONE GANG

9-2 10/16A , ONE WAY TWO GANG

- 10- SOCKET – OUTLET, FOR ELECTRIC SHAVERS 220/240V AC, FOR USE IN BATH ROOMS, TO IEC 742 FLUSH MOUNTING , WITH ISOLATING TRANS FORMER AND EARTHED SCREEN BETWEEN PRIMARY AND SECONDARY WINDINGS FITTED WITH SELF RESETTING THERMAL TIP, SUITABLE FOR ROUND FLAT PIN PLUGS.

10-1 SINGLS VOLTAGE

11- SOCKET-OUTLET, FLUSH MOUNTING, TWO POLE , SQUARE PATTE RN, BASE & COVER MADE OF MOULDED INSULATED MATERIAL . IVORY COLOUR.

11-1 FOR TELEPHONE CONNECTION, ONE GANG MARKED WITH TELEPHON HANDLE

11-2 FOR TV ANTENNA CONNECTION , ONE GANG MARKED WITH”T,V.”

SUPPLIER : RGI PRODUCTS, TEHRAN, IRAN.

12- TV CO. AXIL SOCKET OUTLET, FLUSH MOUNTING, SQUARE PATTERN , BASE & COVER MADE OF MOULDED INSULATING MATERIAL, IVORY COLOR WITH 60.3 MM FIXING CENTERS.

13- TELEPHON CORD-OUTLET FLUSH MOUNTING , SQUARE PATTERN, BASE & COVER MADE OF MOULDED INSULATED MATERIAL IVORY COLOR, WITH 60.3 MM FIXING CENTERS.

14- PLUGS , FUSED, 3PIN (2POLE & EARTHING PIN) , 250V AC, TO BS 1363 , 1967 , RECTANGULAR PIN , WITH MOULDED INSULATING MATERIAL . FITTED WITH CARTRIDGE FUSE LINKS TO BS 1362 (25 .4MM OVERALL LENGTH, AND 6.4MM END-CAP DIAMETER) IVORY COLOUR,

<u>MESC</u>	<u>UNIT</u>	<u>DES</u>
14-1	NO	13A

15- PLUGS, 2 PIN, WITH SIDE EARTHING CONTACTS, 250V AC, TO IEC 83 AND/OR DIN 49440, ROUND PIN, WITH MOULDED INSULATING MATERIAL, IVORY COLOUR.

<u>MESC</u>	<u>UNIT</u>	<u>DES</u>
15-1	NO	10/16A

16- PLUG ADAPTOR, 250V, CONVERTING 3-PIN PLUGS WITH RECTANGULAR PINS (TO BS 1363) TO 2-PIN PLUGS ROUND PINS WITH SIDE EARTHING CONTACTS (TO IEC 83 AND/OR PIN 49440) WITH MOULDED INSULATING MATERIAL , IVORY COLOUR.

<u>MESC</u>	<u>UNIT</u>	<u>DES</u>
16-1	NO	10/16 A

17- BELL , DOMESTIC, IN MOULDED INSULATING MATERIAL, SURFACE MOUNTING, IVORY COLOUR.

<u>MESC</u>	<u>UNIT</u>	<u>DES</u>
17-1	NO	12 AC/DC

18- BUZZER, DOMESTIC , IN MOULDED PLASTIC HOUSING , SURFACE MOUNTING, IVORY COLOUR

<u>MESC</u>	<u>UNIT</u>	<u>DES</u>
18-1	NO	12 AC/DC

19- BELL , INDUSTRIAL . EXPLOSION PROOF SUITABLE FOR DIV 2 AREAS , TANGENT STEEL DOME GONG CAST IRON BODY WITH MACHINED FLANGES , W/OPENING KEY , AND TWO 20MM CONDUIT ENTRY

<u>MESC</u>	<u>UNIT</u>	<u>DES</u>
19-1	NO	6/12 VAC GONG DIA APPROX.6 IN.

- 1- SWITCH, DOMESTIC , BS 3676 , IEC 669-1 , FLUSH , 5 , 15A
- 2- SWITCH ,DOMESTIC , DIN 49200 , IEC 669-1 ,FLUSH, 10A
- 3- SWITCH , NON-INDUSTRIAL , BS 3676 SURFACE , SPLASH-P. , 10A
ONE (POLE, WAY , GANG)
- 4- BELL PUSH SWITCH IEC 669-1 DOM. BS 3676, FL.,SA. ONE POLE ,
WAY, GANG
- 5- BELL PUSH WITCH DIN 49200 , FL.,SA. ONE POLE, WAY , GANG
- 6- SOCKET, DOMESTIC DIN 49440 10/16A FLUSH MOUNTING,
- 7- SOCKET, DOMESTIC BS 1363 13A
- 8- SWITCH SOCKET-OUTLETS , BS1363 13A, FLUSH.
- 9- SWITCH SOCKET-OUTLETS , DIN 49440, 10/16A, FLUSH
- 10- SOCKET-OUTLET FOR SHAVERS
- 11- SOCKET- OUTLET, TWO PIN(TEL.,TV)
- 12- SOCKET-OUTLET, COAXIAL (TV)
- 13- TELEPHONE CORD-OUTLET.
- 14- PLUGS, BS 1363 13A
- 15- PLUGS, DIN 49449,10/16A
- 16- PLUG ADAPTOR, 3-PIN TO 2PIN + EARTHING
- 17- BELL DOMESTIC, 12VAC/DC
- 18- BUZZER, DOMESTIC, 12V AC/DC
- 19- BELL , INDUSTRIAL , FLAME PROOF