



Mod. HP 100



TEK KADEMELİ, YAY TAHRİKLİ,
DENGELİ OBTÜRATÖRLÜ,
YÜKSEK BASINÇ
REGÜLATÖRLERİ

SINGLE STAGE HIGH
PRESSURE SELF-DRIVEN
REGULATORS WITH
BALANCED OBTURATOR



24 25 26 27



Pietro
Fiorentini®



1
HP100/B STANDARD MANOMETRELİ
HP100/B STD WITH MANOMETER



2
HP100/B NPT DİŞLİ BAĞLANTILI
HP100/B WITH NPT CONNECTIONS



3
HP100 STD EMNİYET KAPATMASIZ, DİŞLİ BAĞLANTILI
HP100 STD WITHOUT SLAM SHUT DEVICE, WITH CONNECTIONS



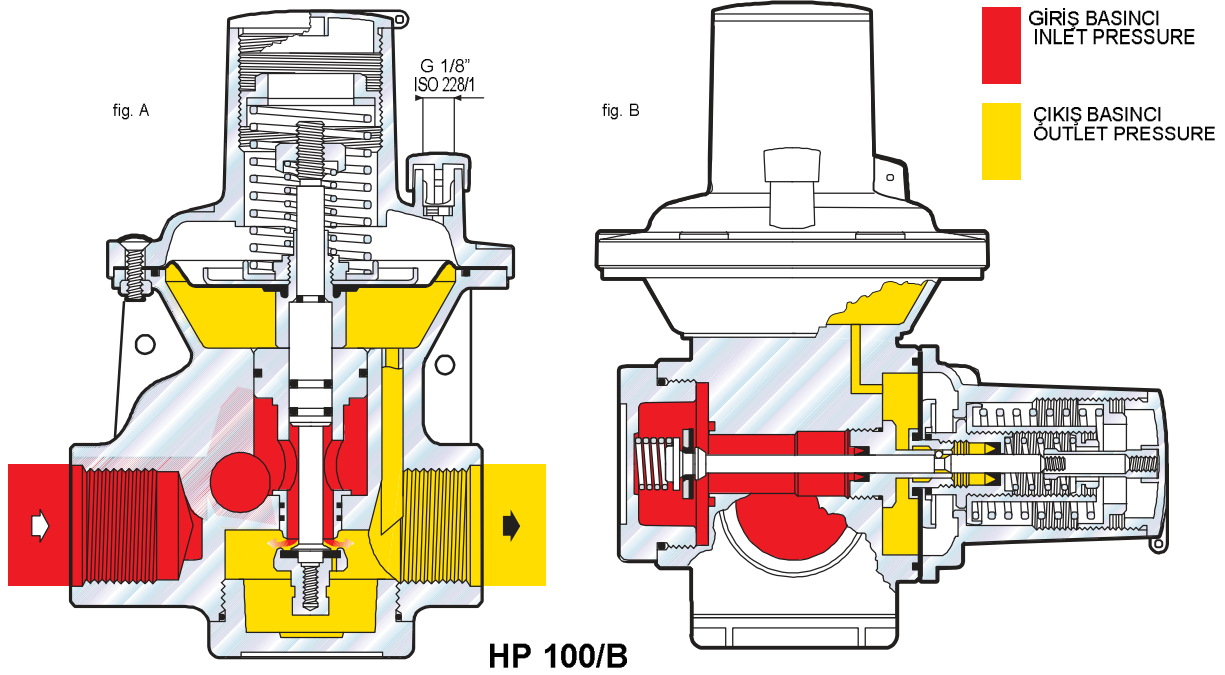
4
HP100 STD STANDART EMNİYET KAPATMASIZ, MANOMETRELİ
HP100 STD WITHOUT SLAM SHUT DEVICE WITH MANOMETER



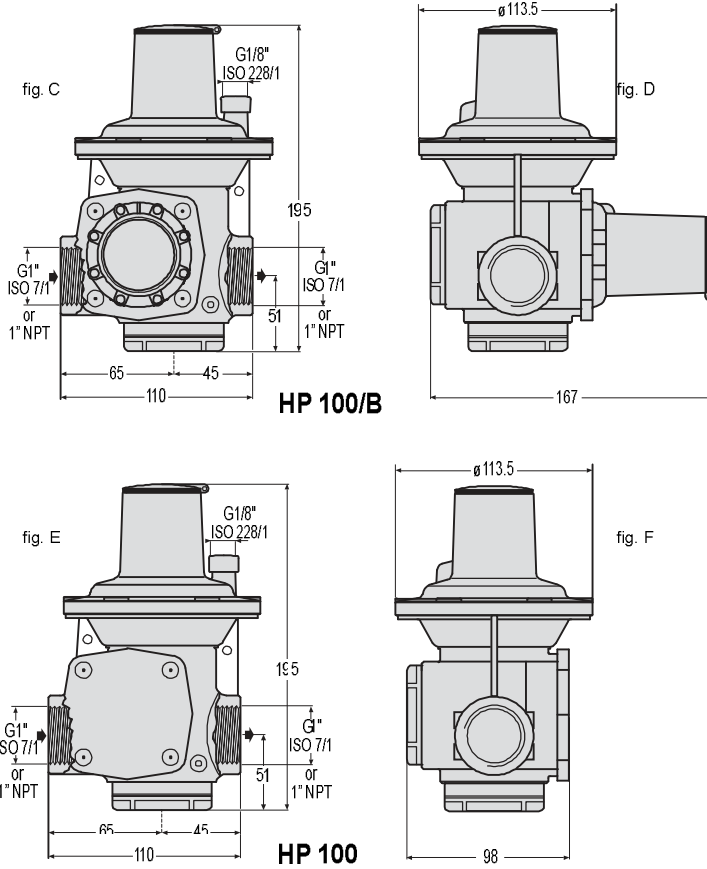
5
HP100/B STANDART DÖNER FLANŞLI
HP100/B STD WITH SLIDING FLANGES



6
HP100 MONİTÖR REGÜLATÖRLÜ TİP
HP100 MONITOR-REGULATOR VERSION



EBATLAR - OVERALL DIMENSIONS



MALZEMELER / MATERIALS

GÖVDE / BODY - GD-AISI12 EN AB 46100
KAPLAMA / COVERS - GD-AISI12 EN AB 46100
DIŞ YÜZEY UYGULAMALARI / EXTERNAL TREATMENTS
KUMLAMA+FOSFATLAMA+TOZ POLİÜRETAN KAPLAMA
SANDBLASTING+PHOSPHATING+DUST POLYURETHANE COATING

YAY AYAR ARALIKLARI - ADJUSTMENT SPRINGS RANGE

Wd ANA KAFA		
TİP VERSION	COD.	ARALIK (mbar) RANGE (mbar)
AP	644.70135	200÷350
AP	644.70203	350÷800
APTR	644.70203	800÷1500
APTR	644.70118	1500÷2500
APTR	644.70165	2500÷4500

tab. 1

Wdo MAKS SSV		
	644.70116	300÷600
	644.70051	600÷1300
	644.70057	1300÷2000
	644.70058	2000÷3500
	644.70059	3500÷5000
	644.70060	5000÷7000

tab. 2

Wdu MIN SSV		
	644.70024	100÷200
	644.70038	200÷1000
	644.70045	1000÷2000
	644.70046	2000÷3000

tab. 3

RELIEF VANA BASINÇLARI (Pd 'e göre) DIFFERENTIAL RELIEF VALVE OPERATING PRESSURE WITH REFERENCE TO THE NOMINAL OUTLET PRESSURE (Pd)

TİP VERSION	COD.	ARALIK (mbar) RANGE (mbar)
AP	644.70038	100÷549
	644.70045	550÷1300
APTR	644.70031	200÷400
	644.70038	400÷1299
	644.70045	1300÷2800

tab. 4

GİRİŞ

HP100 - HP100/B serisi, yay tahrikli, dengelenmiş obtüratörlü, orta ve yüksek basınç kullanımı için tasarlanmış regülatörlerdir.

İyi performans ve farklı akış oranlarında hızlı cevap istenen tüm doğal gaz dağıtım hatlarında, LPG ve korozif olmayan tüm gazların kullanımında tercih edilir.

Domestik hatlarda 1. kademe regülasyon, ticari ve sanayi LPG uygulamalarında sıklıkla kullanılır.

INTRODUCTION

The HP100 and HP100/B series of self actuated spring loaded, diaphragm controlled balanced plug regulators are suitable for medium and high pressures.

They are widely used in the distribution of Natural Gas, LPG and other non corrosive gases where good performance of regulation and fast response to flow rate variations are required.

They are widely used as 1st stage reduction for domestic, commercial and industrial LPG applications.

TEMEL ÖZELLİKLERİ

Nominal akış debisi		Giriş Basıncı MIN Pu min bar		
GN (Stm/h)	GPL (Kg/h)	Pd ≤800 mbar	Pd >800≤2400mbar	Pd <2400 mbar
25	30	Pd + 0.3	Pd + 0.2	Pd + 0.2
50	60	Pd + 0.5	Pd + 0.3	Pd + 0.3
100	120	Pd + 1.0	Pd + 1.2	Pd + 1.2
160	192	Pd + 2.5	Pd + 2.0	Pd + 2.0
240*	288*	/	Pd + 3.5	Pd + 4.0

* Sadece AP TR tipinde (Pd çıkış basıncı)

MAIN FEATURES

Nominal flow rate		Inlet pressure Min Pu min bar (Psi)		
Stm3/h - (Cf/h)	Kg/h - (lb/h)	Pd ≤800 mbar	Pd >800≤2400mbar	Pd <2400 mbar
25 - (882)...	30 - (66)	Pd + 0.3 - (4.3)	Pd + 0.2 - (2.9)	Pd + 0.2 - (2.9)
50 - (1765.7)	60 - (132)	Pd + 0.5 - (7.2)	Pd + 0.3 - (4.3)	Pd + 0.3 - (4.3)
100 - (3531.4)	120 - (264)	Pd + 1.0 - (14.5)	Pd + 1.2 - (17.4)	Pd + 1.2 - (17.4)
160 - (5650.3)	192 - (422)	Pd + 2.5 - (36)	Pd + 2.0 - (29)	Pd + 2.0 - (29)
240 - (8475.5)*	288 - (634)*	/	Pd + 3.5 - (50.5)	Pd + 4.0 - (58)

* Only AP TR version

- Giriş basıncı aralığı bpu: 1÷20 bar
- Maksimum müsaade edilen basınç: 20 bar
- Çıkış basıncı aralığı Wd:
AP: 200÷800 mbar
TR: 800÷4500 mbar
- Aşırı basınç emniyet kapama aralığı:
Wd OPSO 300÷7000 mbar
Wd UPSO 100÷3000 mbar
- Hassasiyet sınıfı:
AC 5/10/15%
- Kapatma basıncı sınıfı:
SG Max 30%
- Sıcaklık sınıfı:
2 (-20°C +60°C)

- Inlet pressure range bpu: 1÷20 bar - bpu: 14.5÷290 Psi
- Max allowable pressure: 20 bar - PS: 290 Psi
- Outlet pressure range Wd:
AP: 200÷800 mbar - 2.4÷321.5" wc
TR: 800÷4500 mbar - 321.5÷1808.4" wc
- Over pressure shut - off setting range:
Wd OPSO 300÷7000 mbar - Wd OPSO 120.5÷2813" wc
Wd UPSO 100÷3000 mbar - Wd UPSO 40.1÷1205.5" wc
- Accuracy class:
AC 5/10/15%
- Lock up pressure class:
SG 30% Max
- Temperature class:
2 (-20°C +60°C) - (-68°F +140°F)

GÜVENLİK SİSTEMLERİ VE AKSESUARLAR

Regülatör giriş filtresi (isteğe bağlı).
Aşırı basınç kapatma (Tip /B).
Maksimum basınç kapatma (Tip /B).
Minimum besleme emniyet kapatma (Tip /B).
Tahliye vanası.
Entegre By-pass.
Emniyet kapatmanın elle resetlenmesi.

Azot akışı için: tablodaki değerleri Stmc/h G.N. x 0.789 ile çarpın.

97/23 CE PED DİREKTİFLERİNE UYGUN

SAFETY DEVICES AND ACCESSORIES

Regulator inlet filter (upon request).
Over pressure shut-off device (/B version).
Under pressure shut-off device (/B version).
Safety shut-off device for lack of feeding (/B version).
Relief valve.
Integrated by-pass.
The safety shutoff devices can only be reset manually.

Azote flow rate: multiply the value in the table Stmc/h G.N. x 0.789

CONFORMING TO THE 97/23 CE PED DIRECTIVE

GİRİŞ - INLET

fig. 1
071.00110.00

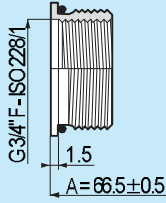


fig. 2
071.00130.00

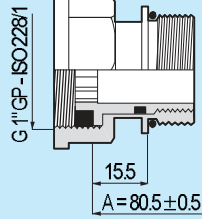


fig. 3
071.00100.00

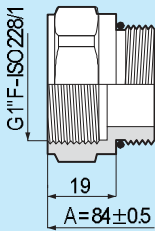


fig. 4
071.00250.00

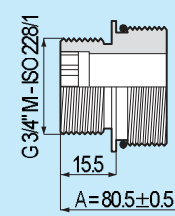


fig. 5
071.00125.00

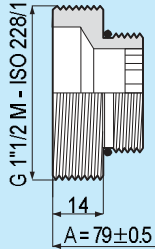


fig. 6
071.00120.00

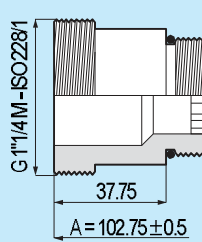


fig. 7
071.00115.00

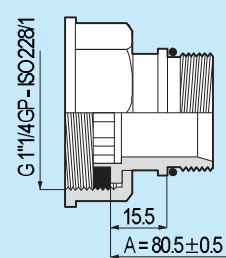


fig. 8
070.00210.00

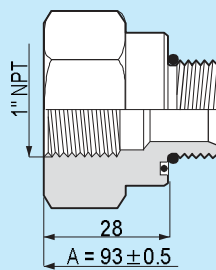


fig. 9
070.10065.01

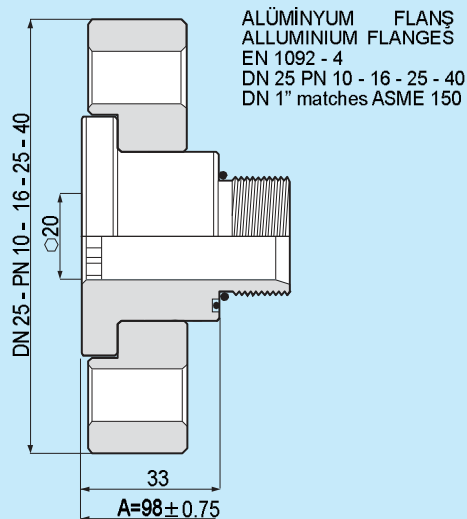
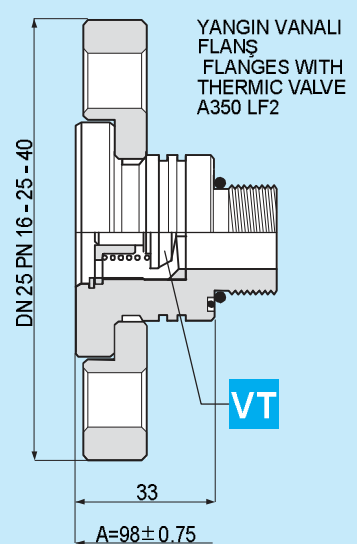
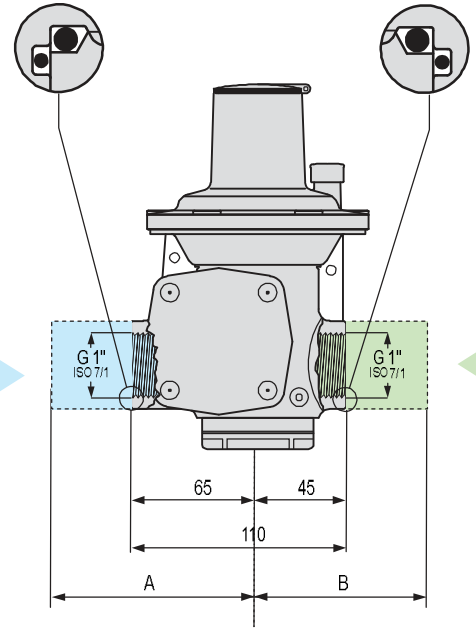


fig. 1
070.10006.01

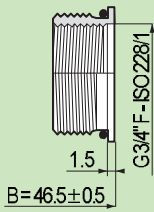
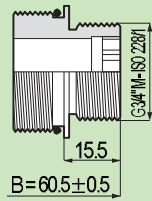
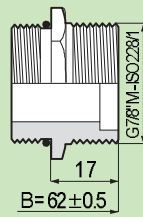
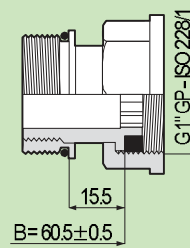
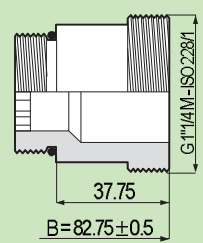
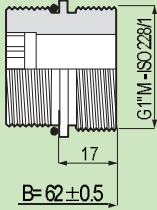


HP 100



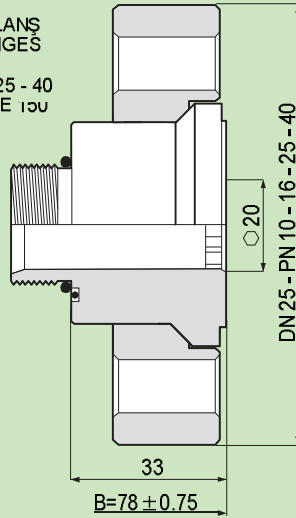
VT = Yangın vanalı / with Thermic Valve

ÇIKIŞ - OUTLET

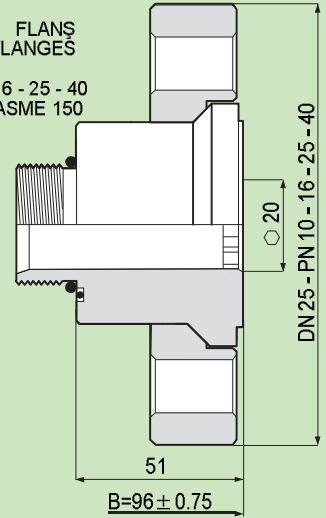
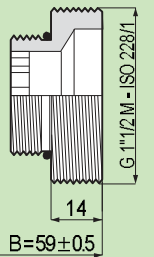
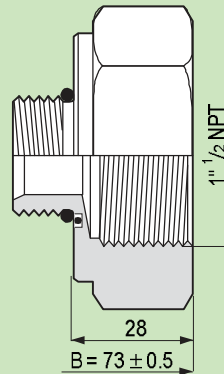
fig. 1
071.00110.00

fig. 2
071.00250.00

fig. 3
071.00140.00

fig. 4
071.00130.00

fig. 5
071.00120.00

fig. 6
071.00290.00


ALÜMİNYUM FLANŞ
ALLUMINIUM FLANGES
EN 1092 - 4
DN 25 PN 10 - 16 - 25 - 40
DN 1" matches ASME 150

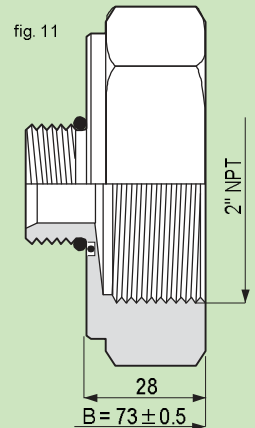
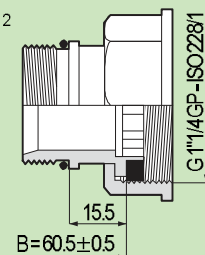
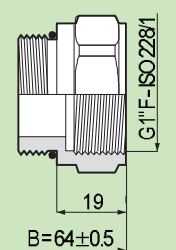
070.10065.01 fig. 7



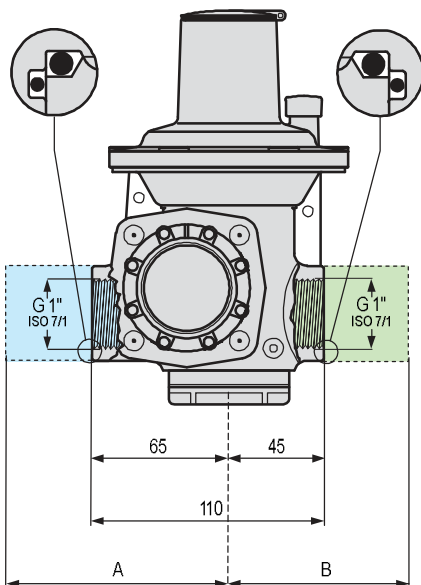
071.10063.01 fig. 8


fig. 9
071.00125.00

fig. 10
071.00300.00


071.00310.00


fig. 12
071.00115.00

fig. 13
071.00100.00


HP 100/B



ETIKET KODLAMASI T-00102 Mod. HP100 - HP100/B

C	NO	BLOCCATO
D	MAX	SI
E	MAX	NO
F	MAX	BLOCCATO
G	MAX/MIN	SI
H	MAX/MIN	NO
I	MAX/MIN	BLOCCATO

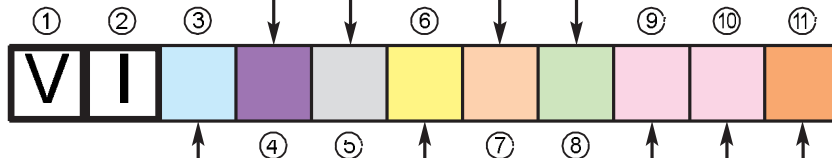
LEGENDA	
① ②	Sigla prodotto
③	Modello
④	Accessori
⑥	Targhettatura
⑥	Connessioni
⑦	Pressione d'ingresso MIN
⑧	Pressione d'ingresso MAX
⑨ ⑩	Tarature
⑪	Versione
STD	Standard
TR	Testata Ridotta (Alta Pressione)
AP	Alta Pressione

BLOCCO			SFERO
MAX	MIN		
A	NO	NO	SI
B	NO	NO	NO
C	NO	NO	BLOCCATO
D	SI	NO (riattivabile)	SI
E	SI	NO (riattivabile)	NO
F	SI	NO (riattivabile)	BLOCCATO
G	SI	SI	SI
H	SI	SI	NO
I	SI	SI	BLOCCATO
J	SI	NO (bloccato)	SI
K	SI	NO (bloccato)	NO
L	SI	NO (bloccato)	BLOCCATO

Con 3 OR (non riattivabile)

Con distanziale (riattivabile)

TARGHETTATURA		
LINGUA	LOGO	U.M.
A	ITALIANO / INGLESE	PERSONALIZZATO CLIENTE mbar
B	INGLESE	PIETRO FIORENTINI mbar
C	INGLESE	PIETRO FIORENTINI kPa
D	INGLESE	PIETRO FIORENTINI Psi
E	INGLESE	PIETRO FIORENTINI Psi



CONNESSIONI		DnE	DnU
0	Rp 1"F x Rp 1"F -ISO 7/1	Corpo (1")	Corpo (1")
1	1"1/4 GP x 1"1/4 GP	071.00115.00	071.00115.00
2	3/4" GP x 3/4" M	071.00370.00	071.00250.00
3	1"GP x 1"F	071.00130.00	Corpo (1")
4	DN25 x DN25-PN40 (ASME) 194	070.10065.01	071.10063.01
5	1"GP x 1"M	071.00130.00	071.00290.00
6	1"F NPT x 1"1/2 F NPT	070.00210.00	071.00300.00
7	1"F NPT x 2"F NPT	070.00210.00	071.00310.00
8			
9	3/4" M x 3/4" M	071.00250.00	071.00250.00
A	DN 3/4"xDN 3/4" ANSI 150	070.10026.01	070.10026.01
B	DN25 x DN25-PN40 (ASME) 176	070.10065.01	070.10065.01
C	1" GP x 1" GP	071.00130.00	071.00130.00
D	1"F NPT x 1"F NPT	070.00210.00	070.00210.00
E	1"1/4M x 1"1/4M	071.00120.00	071.00120.00
F			
G			
H			
I	1/2" F x 1/2" F	071.00350.00	071.00350.00
K	3/4GP(NF) x 1"1/4M	0700041000	0710012000
J	1"1/4GP x 1"SC	0710011500	0700036000
L	3/4"F x 3/4" NPT	0710061000	0710061000
M	1" NPT x 1" NPT	CORPO	CORPO
N	1" BSPT x 1" BSPT	0710050000	0710050000

TARATURE (mbar)				
Pas		Sf	Pso	Psu
Pd	Sf	Pdso	Pdsu	
I Z	200	300	350	100
H Y	300	NO	400	200 *
K B	300	400	550	150
I G	300	600	750	150
K C	400	500	700	150
L F	400	700	1000	250
I K	450	700	1000	250
L E	500	750	1000	250
K R	600	900	1200	350
I U	700	850	1100	400
I W	800	1200	1500	400
L L	800	1200	1600	200
J I	1000	NO	1500	500
K K	1000	1200	1400	500
J B	1000	1400	1800	500
J F	1200	1600	2000	400
K I	1200	1400	1800	250
L K	1250	2500	3200	700
L B	1300	1700	2000	500
J V	1400	2000	2500	1000
L C	1450	2000	2500	1000
J H	1500	NO	2000	1000
J G	1500	2000	2500	1000
J K	1500	2000	3000	200
J Q	1750	NO	2500	1000
J N	1750	2500	3200	1000
J R	2000	NO	2400	1600
J P	2000	2500	3400	1000
L I	2000	2500	3600	400
J S	2500	NO	3000	1500
L G	2500	3000	3600	400
J W	2500	3000	4000	1000
K X	3000	4000	5000	2000
K Y	4000	5000	6000	3000

AP (200-800 mbar)

APTR (800-4000 mbar)

MODELLO / VERSIONE

A	HP 100 AP
B	HP 100 APTR
W	
X	

TABELLA DI CODIFICA
T-00102 Mod. HP100 - HP100/B



	Pu-MIN (bar)
E	0.5
J	1
K	1.5
L	2
1	2.5
M	3
2	3.5
N	4
3	4.5
P	5
Q	6
R	7
S	8
T	10
U	12
V	14
W	16
X	18
Y	19
Z	20

	Pu-MAX (bar)
E	0.5
J	1
K	1.5
L	2
1	2.5
M	3
2	3.5
N	4
3	4.5
P	5
Q	6
R	7
S	8
T	10
U	12
V	14
W	16
X	18
Y	19
Z	20

Per l'ordinazione, seguire scrupolosamente quanto richiesto dalla casella 3 alla 11.

1-2 Sigla identificativa del prodotto

3 Modello di regolatore

4 Accessori

5 Targhettatura

6 Connessioni

7 Pressioni di ingresso MIN

8 Pressioni di ingresso MAX

9-10 Tarature pressione uscita nominali regolate e dispositivi di sicurezza standard

11 Versione

N.B.: Per eventuali versioni non previste dalla tabella, si prega di inviare una richiesta scritta descrivendo dettagliatamente le caratteristiche del prodotto.

La Fiorentini Minireg S.p.A. si impegna a verificare la fattibilità di quanto richiesto.

VERSIONE	
A	STANDARD (FLUIDO GPL)
B	A + MANOMETRO IN USCITA
C	A + CON FILTRO IN ENTRATA
D	FLUIDO METANO (GN)
E	D + MANOMETRO IN USCITA
F	D + CON FILTRO IN ENTRATA
G	A + ETICHETTA OMOLOGATIVA TSE 11390
H	D + ETICHETTA OMOLOGATIVA TSE 11390
J	•
K	•
I	A + TAPPO INVIOLABILE (DODECAGONALE)
L	I + VERSIONE LIMITEUR
M	L + B
N	x FLUIDO AZOTO
P	•
Q	A + ESECUZIONE MONITOR
R	D + ESECUZIONE MONITOR
S	B + C
T	•
U	A + VERSIONE LIMITEUR
\$	VERSIONE PERSONALIZZATA CLIENTE

Açıklama amaçlıdır.

Tüm mümkün modelleri oluşturmak için lütfen

aşağıdaki web sitesini deneyin:

www.fioxchange.com/Servizi Fiorentini

orada yukarıda yazan açıklamaların İngilizcesini de bulabilirsiniz.

This table is only demonstration.

To create all allowable versions please

refer to FM configurator on website:

www.fioxchange.com/Servizi Fiorentini

where you can also find English translation

PAKET EBATLARI - PACKAGING DIMENSIONS

ÜRÜN REFERENCE	ADET PIECES Nr.	EBATLAR DIMENSIONS cm	HACİM VOLUME m ³	AĞIRLIK WEIGHT Kg	PALLET MAX LxPxH cm		
					ADET PIECES Nr.	AĞIRLIK WEIGHT Kg	HACİM VOLUME m ³
HP 100 (G.N. - N.G.) (G.P.L - L.P.G.)	1	14x14x20	0.010	1.7÷2	120x80x115		
					200	340-400	1.10
HP 100/B (G.N. - N.G.) (G.P.L - L.P.G.)	1	20x20x30	0.010	2.5÷3	120x80x150		
					120	300-360	1.44

Bu dökümanın amacı imalatçıya ya da montajcıya faydalı bilgiler sağlamak..
Ürün değerlendirilmesi ve yenilemesi kapsamında FIORENTINI MINIREG S.p.A istediği zaman değişiklik yapma hakkına sahiptir.

Bu kataloğtaki bilgi ve fotoğraflar sadece geneli kapsamaktadır.
Teknik servisimiz, türlü farklı ihtiyaca cevap verebilecek niteliktedir.

FIORENTINI MINIREG S.p.A. bilgilendirme yapmadan değişiklik yapma hakkını saklı tutar.

The aim of this document is to provide useful information to the designer and/or installer.

Upon consideration of the normal product evolution, FIORENTINI MINIREG S.p.A. is at any time free to modify data concerning the items presented.

It is necessary to state that the photographs and the news concerning this catalogue are to be considered as general information only.

Our TECHNICAL ASSISTANCE is available for further information concerning the exact definition of the product characteristics.
Fiorentini Minireg reserves the right to change to this information without previous notice, with the view of continuous improvement.

AÇIKLAMALAR:

Ps	= Müsade edilen meksimum basınç
Pu	= Giriş basıncı
Pu max	= Masimum giriş basıncı
Pd	= Çıkış basıncı
Pd max	= Maksimum çıkış basıncı
Wd	= Ayar aralığı
Wdo	= Maks. kapatma ayar aralığı
Wdu	= Min. ayar aralığı
Bpu	= Giriş basıncı aralığı
Pds	= Ayar değeri
AC/AG	= Hassasiyet sınıfı
SG	= Kapama sınıfı
Q	= Hacimsel debi
C1	= Gövde şekli faktörü
Cg	= Debi katsayısı

LEGEND:

Ps	= Max allowable pressure
Pu	= Inlet pressure
Pu max	= Max inlet pressure
Pd	= Outlet pressure
Pd max	= Permissible outlet pressure
Wd	= Set range
Wdo	= Opso set range
Wdu	= Upso set range
Bpu	= Inlet pressure range
Pds	= Set point
AC/AG	= Accuracy class
SG	= Lock up pressure class
Q	= Volumetric flowrate
C1	= Body shape factor
Cg	= Fow rate coefficient

