



## Tech Master GP400 Series 4.5 Brass Barstock Regulator

Tech Master GP400 Series regulators are intended for primary pressure gas control of:

- ▶ **Non-Corrosive**
- ▶ **High Purity gases** (up to 4.5 Grade)

The Tech Master GP400 series regulators are intended for primary pressure gas control of non corrosive, high purity gases, up to 4.5 purity grade.

### GPS400 Series –

Brass Barstock Single Stage Regulator for applications where slight pressure variance in delivery pressure is acceptable (as cylinder pressure decreases)

### GPT400 Series –

Brass Barstock Two Stage Regulator for applications where constant pressure is required (as cylinder pressure decreases)

### GPL400 Series –

Brass Barstock Line Regulator for gas applications, for distribution systems (pipelines)



GPS400 SERIES



GPT400 SERIES



GPL400 SERIES



## Tech Master GP400 Series 4.5 Brass Barstock Regulator

### GP400 SERIES

#### TYPICAL APPLICATIONS

Purging  
Pressure testing  
Gas shielding  
Hydrocarbon service

#### FEATURES

Five port configuration  
Rear panel mounting capabilities  
(line and single stage regulators)  
Encapsulated seat design  
Low wetted surface area  
Full range of inlet and outlet fittings

#### MATERIALS

Body Brass Barstock  
Bonnet High strength alloy  
Seat Nylon  
Diaphragm Neoprene  
Seals Viton  
Filter 10 Micron sintered 316L Stainless Steel

#### SPECIFICATION

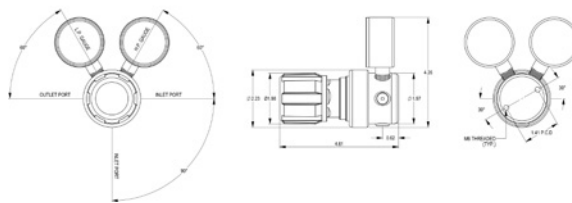
Maximum Inlet Pressure	25 bar (360 psig), 60 bar (870 psig), 207 bar (3000 psig), 300 bar (4350 psig)*		
Delivery Pressure Range psig	0-15 psig, 0-22 psig, 0-50 psig, 0-90 psig, 0-150 psig.		
Delivery Pressure Range bar	0-1 bar, 0-1.5 bar, 0-3 bar, 0-6 bar, 0-10 bar		
Gauges	50mm (2") diameter snap-on tamper proof lens		
Ports	1/4" NPT Female		
Temperature Range	-40° C to +60° C (60° F to 140° F)		
Flow Coefficient	GPS / GPL	GPT	
	C <sub>v</sub> =0.1	C <sub>v</sub> =0.07	
Ports	1/4" NPT Female		
Weight	GPL400 / 410	0.9kg (2.1lb)	
	GPS400 / 410	1.05kg (2.3lb)	
	GPT400 / 410	1.5kg (3.5lb)	

\*Single and Two Stage regulators with no fitting fitted in to the regulator

### DIMENSIONS

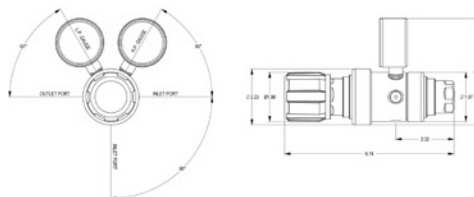
#### SINGLE STAGE REGULATOR

GP400 Series – Single Stage diaphragm regulator with no relief valve



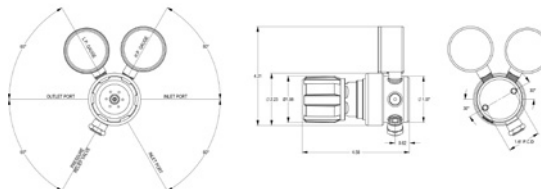
#### TWO STAGE REGULATOR

GP400 Series – Two Stage diaphragm regulator with no relief valve



#### LINE REGULATOR

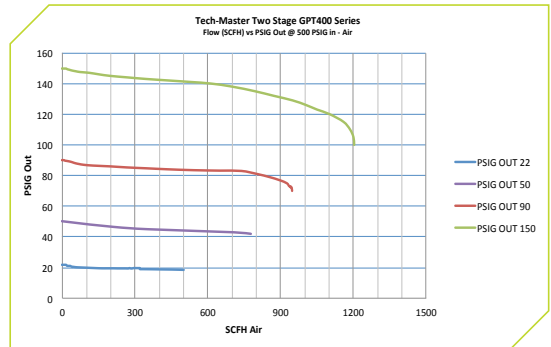
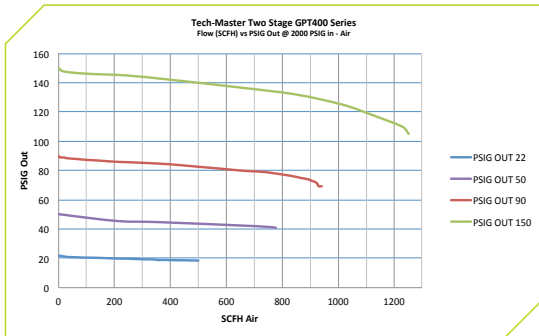
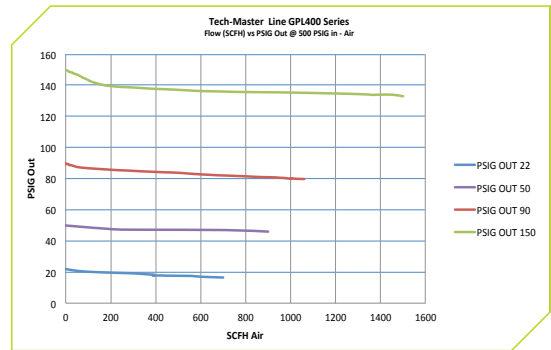
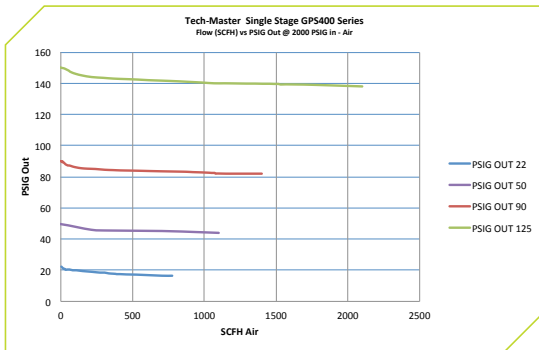
GP400 Series – Diaphragm regulator with no relief valve



# Tech Master GP400 Series

## 4.5 Brass Barstock Regulator

### FLOW PERFORMANCE



### MODEL NO. SELECTOR GUIDE

# GPS400-03-05-01-01-054-21-L

PRODUCT MODEL	INLET PRESSURE	DELIVERY PRESSURE	INLET PRESSURE GAUGE UNIT	DELIVERY PRESSURE GAUGE UNIT	INLET FITTINGS	OUTLET FITTINGS	OPTIONS
GPS400	01 360 psi	01 0-15 psi	00 No Gauge	00 No Gauge	000 No Inlet Fittings	00 No Outlet Fittings	A No Options
GPS410 Acetylene	03 3000 psi	02 0-22 psi	01 Bar/PSI	01 Bar/PSI	001 1/8" Compression Tube Brass	01 1/8" Compression Tube Brass	L Compliance Certificate
	04 4350 psi	03 0-50 psi	Brass	Brass	003 1/4" Compression Tube Brass	03 1/4" Compression Tube Brass	* All GPS400 & 410 series are supplied without relief valve
		04 0-90 psi			007 1/4" NPT Male Brass	07 1/4" NPT Male Brass	
		05 0-150 psi			045 CGA 296 Brass	21 Control Valve 1/4" NPT Brass	
					046 CGA 300 Brass	22 Control Valve 1/8" Compression Tube Brass	
					047 CGA 320 Brass	23 Control Valve 1/4" Compression Tube Brass	
					048 CGA 326 Brass	57 DRK Diffusion Resistant Shut-Off Valve 1/4" NPT Female Brass	
					050 CGA 346 Brass	58 DRK Diffusion resistant Shut-Off Valve 1/8" Tube Brass	
					051 CGA 350 Brass	59 DRK Diffusion resistant Shut-Off Valve 1/4" Tube Brass	
					053 CGA 510 Brass	60 DRK Diffusion resistant Shut-Off Valve 1/4" NPT Male Brass	
					054 CGA 540 Brass		
					056 CGA 580 Brass		
					057 CGA 590 Brass		
					061 CGA 992 Brass		
					062 CGA 993 Brass		

Rules: **GPS400** 1) Model number for delivery pressures from 22 up to 150 psi  
 2) Inlet Pressure of 4350 psi (option 4) only available with no inlet fitting (option 00 - inlet fittings)  
**LGT510 Acetylene** 1) Model number for 15 psi delivery pressure only (Acetylene regulator) Inlet Fitting CGA 510 only and 360 psi inlet pressure



# Tech Master GP400 Series 4.5 Brass Barstock Regulator

## MODEL NO. SELECTOR GUIDE

**GPT400-03-05-01-01-054-21-L**

PRODUCT MODEL	INLET PRESSURE	DELIVERY PRESSURE	INLET PRESSURE GAUGE UNIT	DELIVERY PRESSURE GAUGE UNIT	INLET FITTINGS		OUTLET FITTINGS		OPTIONS
<b>GPT400</b>	<b>01</b> 360 psi	<b>01</b> 0-15 psi	<b>00</b> No Gauge	<b>00</b> No Gauge	<b>000</b> No Inlet Fittings	<b>00</b> No Outlet Fittings			<b>A</b> No Options
<b>GPT410</b> Acetylene	<b>03</b> 3000 psi	<b>02</b> 0-22 psi	<b>01</b> Bar/PSI Brass	<b>01</b> Bar/PSI Brass	<b>001</b> 1/8" Compression Tube Brass	<b>01</b> 1/8" Compression Tube Brass			<b>L</b> Compliance Certificate
	<b>04</b> 4350 psi	<b>03</b> 0-50 psi			<b>003</b> 1/4" Compression Tube Brass	<b>03</b> 1/4" Compression Tube Brass			<b>*</b> All GPT400 & 410 series are supplied without relief valve
		<b>04</b> 0-90 psi			<b>007</b> 1/4" NPT Male Brass	<b>07</b> 1/4" NPT Male Brass			
		<b>05</b> 0-150 psi			<b>044</b> CGA 280 Brass	<b>21</b> Control Valve 1/4"NPT Brass			
					<b>045</b> CGA 296 Brass	<b>22</b> Control Valve 1/8" Compression Tube Brass			
					<b>046</b> CGA 300 Brass	<b>23</b> Control Valve 1/4" Compression Tube Brass			
					<b>047</b> CGA 320 Brass	<b>57</b> DRK Diffusion Resistant Shut-Off Valve 1/4" NPT Female Brass			
					<b>048</b> CGA 326 Brass	<b>58</b> DRK Diffusion resistant Shut-Off Valve 1/8" Tube Brass			
					<b>050</b> CGA 346 Brass	<b>59</b> DRK Diffusion resistant Shut-Off Valve 1/4" Tube Brass			
					<b>051</b> CGA 350 Brass	<b>60</b> DRK Diffusion resistant Shut-Off Valve 1/4"NPT Male Brass			
					<b>053</b> CGA 510 Brass				
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Rules: **GPS400** 1) Model number for delivery pressures from 22 up to 150 psi

2) Inlet Pressure of 4350 psi (option 4) only available with no inlet fitting (option 00 - inlet fittings)

**LGT510 Acetylene** 1) Model number for 15 psi delivery pressure only (Acetylene regulator) Inlet Fitting CGA 510 only and 360 psi inlet pressure

## MODEL NO. SELECTOR GUIDE

**GPL400-02-05-00-01-000-21-L**

PRODUCT MODEL	INLET PRESSURE	DELIVERY PRESSURE	INLET PRESSURE GAUGE UNIT	DELIVERY PRESSURE GAUGE UNIT	INLET FITTINGS		OUTLET FITTINGS		OPTIONS
<b>GPL400</b>	<b>01</b> 360 psi	<b>01</b> 0-15 psi	<b>00</b> No Gauge	<b>00</b> No Gauge	<b>000</b> No Inlet Fittings	<b>00</b> No Outlet Fittings			<b>A</b> No Options
<b>GPL410</b> Acetylene	<b>02</b> 870 psi	<b>02</b> 0-22 psi		<b>01</b> Bar/PSI Brass	<b>001</b> 1/8" Compression Tube Brass	<b>01</b> 1/8" Compression Tube Brass			<b>L</b> Compliance Certificate
		<b>03</b> 0-50 psi			<b>003</b> 1/4" Compression Tube Brass	<b>03</b> 1/4" Compression Tube Brass			<b>*</b> Line regulators are supplied with out Relief valve
		<b>04</b> 0-90 psi			<b>007</b> 1/4" NPT Male Brass	<b>07</b> 1/4" NPT Male Brass			
		<b>05</b> 0-150 psi				<b>21</b> Control Valve 1/4"NPT Brass			
						<b>22</b> Control Valve 1/8" Compression Tube Brass			
						<b>23</b> Control Valve 1/4" Compression Tube Brass			
						<b>57</b> DRK Diffusion Resistant Shut-Off Valve 1/4" NPT Female Brass			
						<b>58</b> DRK Diffusion resistant Shut-Off Valve 1/8" Tube Brass			
						<b>59</b> DRK Diffusion resistant Shut-Off Valve 1/4" Tube Brass			
						<b>60</b> DRK Diffusion resistant Shut-Off Valve 1/4"NPT Male Brass			

Rules: **GPL400** 1) Model number for delivery pressures from 22 up to 150 psi

**LGT510 Acetylene** 1) Model number for 15 psi delivery pressure only (Acetylene regulator) Inlet Fitting CGA 510 only and 360 psi inlet pressure



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