



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

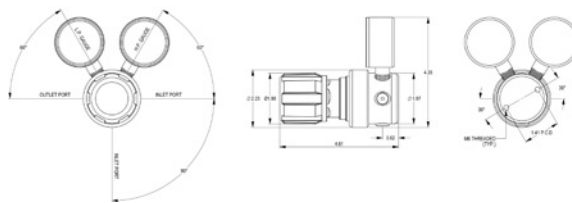
Maximum Inlet Pressure	25 bar (360 psig), 60 bar (870 psig), 207 bar (3000 psig), 300 bar (4350 psig)*		
Delivery Pressure Range psig	0-15 psig, 0-22 psig, 0-50 psig, 0-90 psig, 0-150 psig.		
Delivery Pressure Range bar	0-1 bar, 0-1.5 bar, 0-3 bar, 0-6 bar, 0-10 bar		
Gauges	50mm (2") diameter snap-on 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	
	$C_v=0.1$	$C_v=0.07$	
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

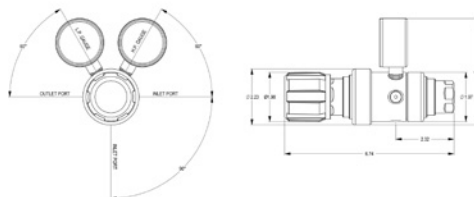
SINGLE STAGE REGULATOR

GP400 Series – Single Stage diaphragm regulator with no relief valve



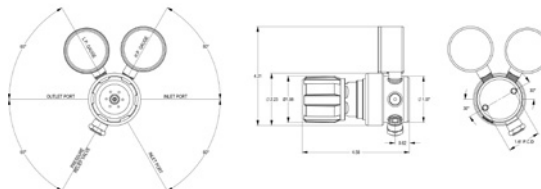
TWO STAGE REGULATOR

GP400 Series – Two Stage diaphragm regulator with no relief valve



LINE REGULATOR

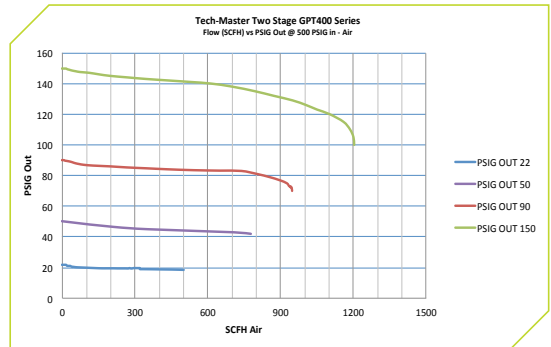
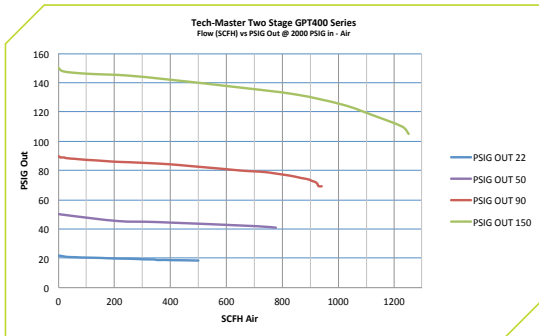
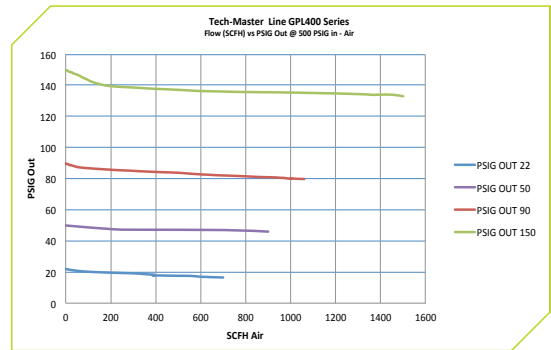
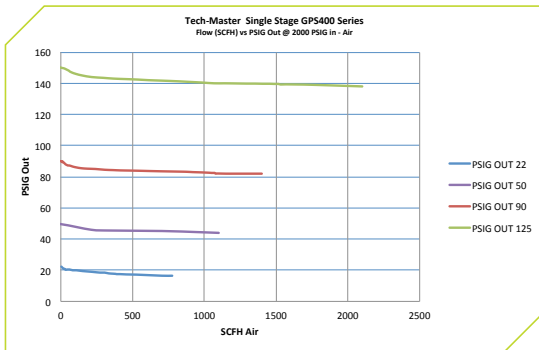
GP400 Series – Diaphragm regulator with no relief valve



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
GPT400	01 360 psi	01 0-15 psi	00 No Gauge	00 No Gauge	000 No Inlet Fittings	00 No Outlet Fittings			A No Options
GPT410 Acetylene	03 3000 psi	02 0-22 psi	01 Bar/PSI Brass	01 Bar/PSI Brass	001 1/8" Compression Tube Brass	01 1/8" Compression Tube Brass			L Compliance Certificate
	04 4350 psi	03 0-50 psi			003 1/4" Compression Tube Brass	03 1/4" Compression Tube Brass			* All GPT400 & 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			044 CGA 280 Brass	21 Control Valve 1/4"NPT Brass			
					045 CGA 296 Brass	22 Control Valve 1/8" Compression Tube Brass			
					046 CGA 300 Brass	23 Control Valve 1/4" Compression Tube Brass			
					047 CGA 320 Brass	57 DRK Diffusion Resistant Shut-Off Valve 1/4" NPT Female Brass			
					048 CGA 326 Brass	58 DRK Diffusion resistant Shut-Off Valve 1/8" Tube Brass			
					050 CGA 346 Brass	59 DRK Diffusion resistant Shut-Off Valve 1/4" Tube Brass			
					051 CGA 350 Brass	60 DRK Diffusion resistant Shut-Off Valve 1/4"NPT Male Brass			
					053 CGA 510 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

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