



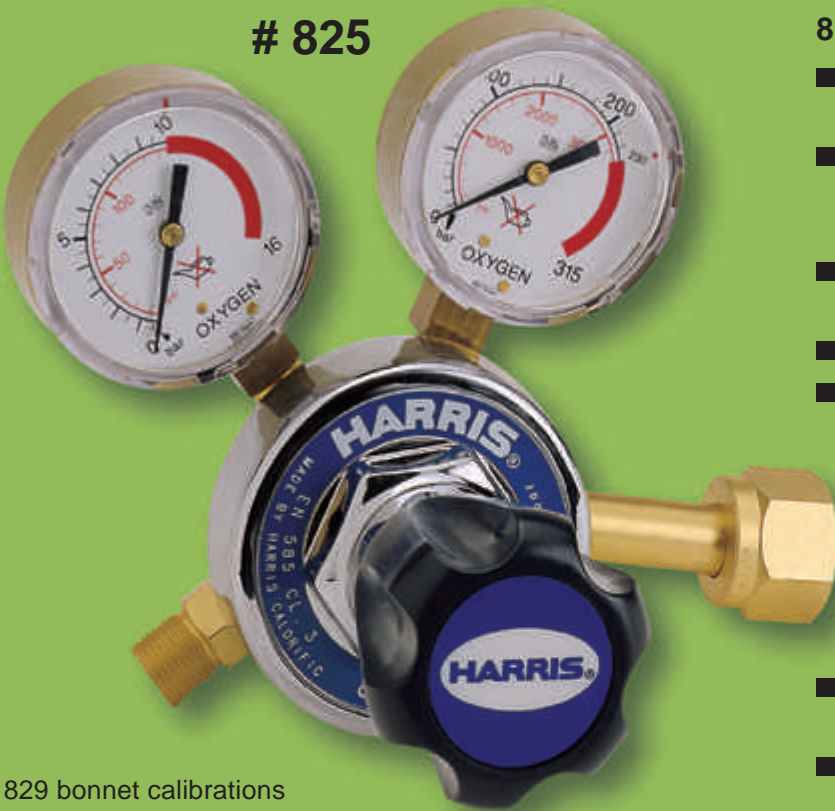
ISO-9002 CERTIFIED QUALITY SYSTEM

Harris Calorific Co.,
Cleveland, Ohio (U.S.A.)

Series 825 & 829 Cylinder Regulator

HEAVY DUTY INDUSTRIAL SINGLE STAGE GAS REGULATORS.

825



825 FEATURES:

- Large capacity - high flow and high pressure. Gives enough oxygen to cut steel 400 mm thick.
- Big diaphragm 70 mm dia stabilises working pressure. 25 and 40 bar models have stainless steel diaphragm.
- Sintered alloy inlet filter to trap impurities has no copper, so is safe with acetylene and other gases.
- Smooth adjustment, with high precision.
- New 63 mm large safety gauges. Easy to read bar / PSI calibrations (kPa / PSI available) with following additional features:
 - polycarbonate lenses will not shatter or burn like cheaper plastics
 - resists damage - even a hammer blow won't hurt the lens
 - lens removable for easy maintenance
- New knob, can't be unscrewed, but simple to change for service.
- HARRIS traditional quality standards and individual testing assure high safety levels, long product life..

829 bonnet calibrations



829 FEATURES:

- Designed to withstand more abuse - virtually unbreakable regulator.
- Gaugeless - cylinder contents (high pressure) tough polycarbonate indicator, easy to read delivery (low pressure) calibrations.
- Large capacity - high flow and high 8 bar pressure.
- Sintered alloy inlet filter to trap impurities has no copper, so is safe with acetylene and other gases.
- Big diaphragm 70 mm dia stabilises working pressure.
- New knob, can't be unscrewed, but simple to change for service.
- HARRIS traditional quality standards and individual testing assure high safety levels, long product life..



829

ALL HARRIS PRODUCTS ARE DESIGNED TO SAVE YOU MONEY

Harris single stage cylinder regulators SERIES 825 and 829 are suitable for heavy duty welding, cutting and heating applications and are used in laboratories and toughest industrial applications for precise control of most common gases

Standard range is listed on chart below. Special variations can be made.

When ordering specify model number below, gas and country (inlet and outlet will be supplied to suit that country).

Model	Max press. bar (kPa)	Flow m ³ / h*							P3 bar (kPa)	Q max m ³ / h*		
		AC	OX	AIR	N	AR	H	HE		LPG	CO ₂ **	
825 Series												
825N-1.5	1.5 (150)	14	-	-	-	-	-	84	-	4 (400)	15	-
825N- 4	4 (400)	-	21	22	23	19	-	59	9 (900)	15	91	
825N-10	10 (1000)	-	54	57	58	48	216	-	21 (2100)	-	91	
825AN-10	10 (1000)	-	-	-	-	-	-	152	21 (2100)	-	91	
825N-15	15 (1500)	-	72	76	77	64	289	-	31 (3100)	-	91	
825AN-15	15 (1500)	-	-	-	-	-	413	204	31 (3100)	-	91	
825AD-25	25 (2500)	-	103	109	111	92	392	292	51 (5100)	-	91	
825ARS-40	40 (4000)	-	98	103	105	88	-	278	81 (8100)	-	56	
829 Series												
829N-1.5	1.5 (150)	14	-	-	-	-	-	-	4 (400)	15	-	
829N- 4	4 (400)	-	21	22	23	19	-	-	9 (900)	15	91	
829N-8	8 (800)	-	45	47	48	40	-	-	17 (1700)	-	91	

Flow notes:

- Above "Q max" are at regulator outlet. Hoses, valves and other equipment connected to the regulator may reduce the actual flow.
- "Q max" is latest int'l standards (EN-585, ISO-2503) for max. flow, with nearly empty cylinder pressure (P3).
 - * LPG (propane) and CO₂ are liquified gases, at 7 bar (pure propane) and 55 bar (CO₂), so flows measured at these inlet pressures.
 - ** CO₂ regulators need a heater for continuous flow over 1 m³ / hour.

Notes:

- Model 825ARS-40 is a 40 bar max. outlet pressure regulator, with Harris-made P.T.F.E. (Teflon) capsule seat complete with sintered alloy filter (replacing inlet stem filter), stainless steel diaphragm, external safety relief valve, special anti-vibrator which allows use also with light weight gases.
- Model 825AD-25 has stainless steel diaphragm, with internal safety relief valve and Harris-made P.T.F.E. (Teflon) capsule seat complete with sintered alloy filter (replacing inlet stem filter).
- "Euro" - style models also available with G 1/4" safety gauges (conforming to EN-562) and tamperproof, self reseating internal safety relief valve on compressed gas models. Acetylene and propane regulators fitted with the Harris diaphragm bursting safety device. Order without "N" in model n° and add "D" for compressed gases. Eg.: 825-1,5-AC and 825D-10-OX.

ACCESSORIES

(Suitable for 9/16" x 18 UNF regulator outlet. Other sizes are available on request.)



188-L / R

Dry Flash Arrestors
main cause of dangerous explosions is mixed gas igniting in the regulator, or hose.
HARRIS Dry Flash Arrestors provide maximum protection. Includes non return valve and sintered metal flash arrestor.



38-L / R

Harris hose connection
38-L1(fuel) 38-R1(oxy) 9 mm
38-L2(fuel) 38-R2(oxy) 8 mm
38-L3(fuel) 38-R3(oxy) 6 mm
38-L4(fuel) 38-R4(oxy) 5 mm



37-L2 / R2

"Y" connection with valves
permits coupling two hoses to regulator and to control the flow separately.



52-L / R

Outlet control valve
fits on regulator outlet, large flow, fine control.



37-L / R

"Y" connection without valves
permits coupling two hoses to regulator outlet.

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