



REF-3-PG



REF-3-P

**REF SERIES FLOWMETER REGULATORS
(PISTON STYLE)**

REF Series models combine a single stage piston regulator with a flow tube to provide an economical, lighter weight alternative to more expensive diaphragm style flowmeter regulators. The REF series is designed to meet the requirements of professional welders.

FEATURES AND SPECIFICATIONS:

- Machined brass body resists corrosion
- Durable brass piston design
- Built-in cylinder contents indicator forewarns when cylinder is near depletion (gaugeless models)
- Dependable PTFE seat assembly
- Dual inlet filtering system extends regulator life
- Durable flowtube with large, easy to read gradients and shatter-resistant cover
- Dual calibrated tube for Argon/Carbon Dioxide service
- Back pressure compensated flowmeter
- Sensitive needle valve for fine adjustment
- PD & PGD models include 6 ft. neoprene hose w/ fittings in self-service retail packaging
- Weight: 1lb. 8oz.
- Size: (2-1/4" l, 5" w, 7-3/4" h)
- Three year warranty
- Made in the U.S.A.

MODEL SELECTION GUIDE

MODEL	DISPLAY PACK MODEL	CGA INLET/ GAS SERVICE PSIG	INLET PRESSURE	FLOW CAPACITY SCFH (Both Provided)	OUTLET CONNECTIONS
REF-3-P	REF-3-PD*	580 Argon	0-3000	0-70	9/16"-18 RHM and 5/8"-18 RHF
REF-3-PG	REF-3-PGD*	580 Argon, w/gauge	0-3000	0-70	9/16"-18 RHM and 5/8"-18 RHF
REF-4-P	REF-4-PD*	320 Carbon Dioxide	0-3000	0-70	9/16"-18 RHM and 5/8"-18 RHF
REF-4-PG	REF-4-PGD*	320 Carbon Dioxide w/gauge	0-3000	0-70	9/16"-18 RHM and 5/8"-18 RHF

*PD & PGD models include 6 ft. neoprene hose with fittings

COMMON REPLACEMENT PARTS

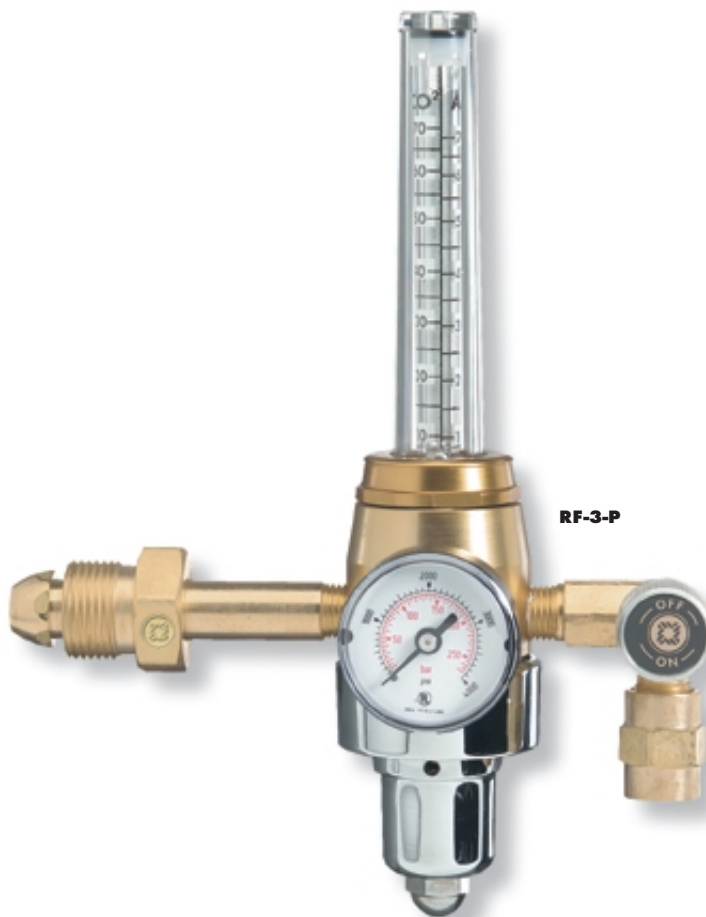
MODEL	DISPLAY PACK MODEL	INLET NUT	INLET NIPPLE	PISTON ASSEMBLY	OUTLET ADAPTOR	NEEDLE VALVE ASSEMBLY	GAUGE	FLOW TUBE
REF-3-P	REF-3-PD*	92	15-3SF	1448R -2	AW-432B	RWS-3-45	N/A 2030-14G Tube	2010 Tube Cover
REF-3-PG	REF-3-PGD*	92	15-3SF	1448R -2	AW-432B	RWS-3-45	G-18-4000W 2030-14G Tube	2010 Tube Cover
REF-4-P	REF-4-PD*	CO-2	CO-3SF	1448R -2	AW-432B	RWS-3-45	N/A 2030-14G Tube	2010 Tube Cover
REF-4-PG	REF-4-PGD*	CO-2	CO-3SF	1448R -2	AW-432B	RWS-3-45	G-18-4000W 2030-14G Tube	2010 Tube Cover

**RF SERIES FLOWMETER
REGULATORS
(DIAPHRAGM STYLE)**

RF Series models combine a single stage diaphragm regulator with a flowmeter to provide precise flows for the professional welder, laboratory, or industrial process user. A high pressure gauge keeps the user informed of the cylinder's content.

**FEATURES AND
SPECIFICATIONS:**

- Anodized aluminum body resists corrosion
- Kel-F® seat assembly withstands high service pressures
- Dual inlet filtering system extends product life
- Self re-seating relief valve protects against over-pressurization
- Durable flow tube with large, easy to read gradients and shatter resistant cover
- Dual calibrated flow tube for Argon/Carbon Dioxide services
- Sensitive needle valve for fine adjustment
- Back pressure compensated flowmeter
- Durable neoprene diaphragm
- Weight: 1lb. 3oz.
- Size: (6-1/2"w, 8-1/2"h, 3"l)
- Three year warranty
- Made in the U.S.A.



MODEL SELECTION GUIDE

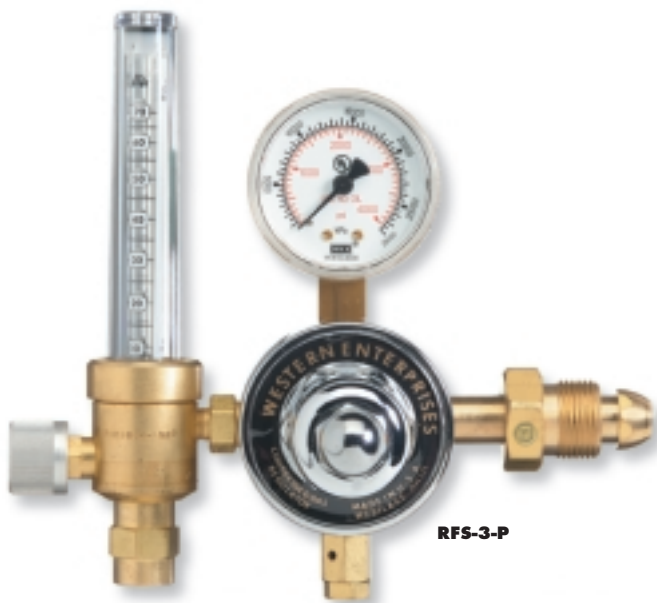
MODEL	CGA INLET/ GAS SERVICE	FLOW CAPACITY SCFH	INLET PRESSURE PSIG	OUTLET CONNECTIONS (Both Provided)
RF-3-P	580 Argon	0-70	0-3000	9/16"-18 RHM and 5/8"-18 RHF
RF-4-P	320 Carbon Dioxide	0-70	0-3000	9/16"-18 RHM and 5/8"-18 RHF

COMMON REPLACEMENT PARTS

MODEL	INLET NUT	INLET NIPPLE	OUTLET ADAPTOR	NEEDLE VALVE	REPAIR KIT	INLET GAUGE	FLOW TUBE
RF-3-P	92	15-3SF	AW-432B	21-NV-2	RK-1060	G-18-4000W	2010 Tube Cover, 2030-14G Tube
RF-4-P	CO-2	CO-3SF	AW-432B	21-NV-2	RK-1060	G-18-4000W	2010 Tube Cover, 2030-14G Tube

**RFS & RFD SERIES
FLOWMETER REGULATORS**

RFS & RFD Series models combine a single stage regulator with one (RFS Series) or two (RFD Series) flowmeters. These products also utilize Western's "pressure compensated" (COMP1™) design. For applications that require high flow rates, this design provides more consistent delivery pressure by minimizing fluctuation over a wide range of inlet pressures. Designed for users who require precise flows, these products are ideal for the professional welder, laboratory, or industrial process user. A high pressure gauge keeps the user informed of the cylinder's content.



FEATURES AND SPECIFICATIONS:

- Machined brass body resists corrosion
- Easy-to-read 2" pressure gauge
- Durable neoprene diaphragm maintains consistent flow rates
- Dual inlet filtering system extends regulator life
- Self re-seating pressure relief valve protects against over-pressurization
- Durable flow tube with large, easy to read gradients and shatter-resistant cover
- Dual calibrated flow tube for Argon/Carbon Dioxide services
- Back pressure compensated flowmeter improves flow accuracy
- Nickel chrome plated zinc bonnet
- Sensitive, easily adjusted needle valve on flowmeters
- Weight: RFS = 3lbs. 3oz.
RFD = 4lbs. 10oz.
- Size: RFS = 7-1/2"l, 4-1/2"w, 6-3/4"h
RFD = 10-3/8"l, 4-1/2"w, 7"h
- Three year warranty
- RFS models are U.L. listed
- Made in the U.S.A.

MODEL SELECTION GUIDE

MODEL	CGA INLET/ GAS SERVICE	FLOW CAPACITY SCFH	INLET PRESSURE PSIG	OUTLET CONNECTIONS (Both Provided)
RFS-3-P	580 Argon	0-50	0-3000	9/16"-18 RHM and 5/8"-18 RHF
RFS-4-P	320 Carbon Dioxide	0-50	0-3000	9/16"-18 RHM and 5/8"-18 RHF
RFS-7-P	580 Nitrogen	0-50	0-3000	9/16"-18 RHM and 5/8"-18 RHF
RFD-3-P	580 Argon	0-50	0-3000	9/16"-18 RHM and 5/8"-18 RHF
RFD-4-P	320 Carbon Dioxide	0-50	0-3000	9/16"-18 RHM and 5/8"-18 RHF

COMMON REPLACEMENT PARTS

MODEL	INLET NUT	INLET NIPPLE	REPAIR KIT	INLET GAUGE	FLOWMETER
RFS-3-P	92	15-3SF	RK-1010	G-2-4000W	RWS-2-13
RFS-4-P	CO-2	CO-4SF	RK-1010	G-2-3000W	RWS-2-13
RFS-7-P	92	15-3SF	RK-1010	G-2-4000W	RWS-2-7
RFD-3-P	92	15-3SF	RK-1010	G-2-4000W	RWS-2-13
RFD-4-P	CO-2	CO-4SF	RK-1010	G-2-3000W	RWS-2-13

RWS SERIES FLOWMETERS

RWS Series Flowmeters provide accurate measurement of gas flow in welding and laboratory applications. The economical design is back pressure compensated to improve flow accuracy.

FEATURES AND SPECIFICATIONS:

- Durable flow tube with large, easy to read gradients and shatter-resistant cover
- Dual calibrated tube for Argon/Carbon Dioxide services
- Sensitive, easily adjusted needle valve
- Protective inlet filter extends flowmeter life
- Weight: 8oz.
- Size: (1-1/2", 2-1/4"w, 6-1/2"h)
- Three year warranty
- Made in the U.S.A.



MODEL SELECTION GUIDE

MODEL	GAS SERVICE	FLOW CAPACITY SCFH	INLET CONNECTION	CALIBRATED INLET PRESSURE PSIG	OUTLET CONNECTIONS
RWS-2-7	Nitrogen	0-100	1/8" NPT F	50	9/16"-18 RHM and 5/8"-18 RHF
RWS-2-13	Argon/CO ₂ (Dual Calibrated)	0-70	1/8" NPT F	50	9/16"-18 RHM and 5/8"-18 RHF

COMMON REPLACEMENT PARTS

MODEL	FLOWMETER SEAT	FLOW TUBE	FLOW TUBE COVER	NEEDLE VALVE ASSEMBLY	FLOAT BALL
RWS-2-7	20-T1	20-T90N	2010	RWS-3-45	2002-5
RWS-2-13	20-T1	2030-14G	2010	RWS-3-45	2002-1