

15K Pressure Regulating Valve (By-Pass Valve)

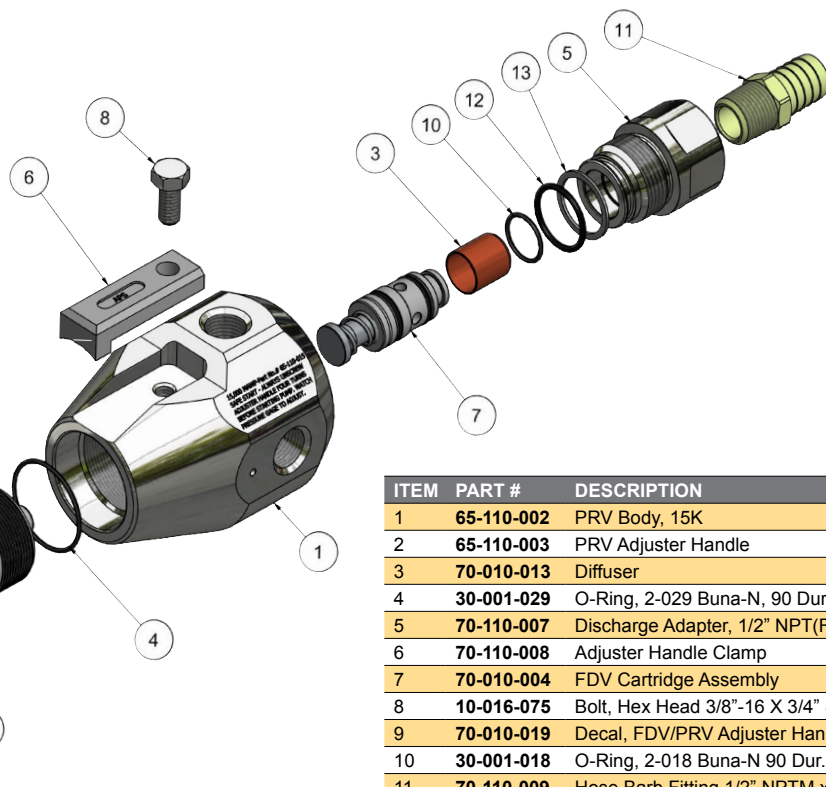
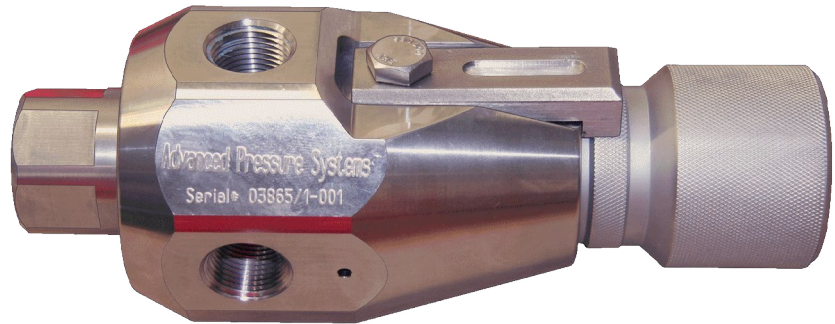
A Pressure Regulating Valve (PRV) is used on both diesel and electric pumping units to divert a portion of the flow to a low pressure outlet. It is really a hand adjusted needle valve, and it can be used to control pressure when the application requires a flow at the low end of the pumping unit operating range. For electric units a PRV is required equipment, because the speed of the drive is not adjustable.

The design provides:

- Simple field rebuild using a cartridge unit. Down time is two minutes or less.
- This includes the locking of the adjuster handle, after the pressure is set.
- Easy hand adjustment without the need for wrenches.
- All components machined from stainless steel.
- Direct mounting to fluid end discharge manifold.

Part #	Description
65-110-015	Pressure Regulating Valve Complete

Part #	Description
65-010-004	Gauge Board Complete



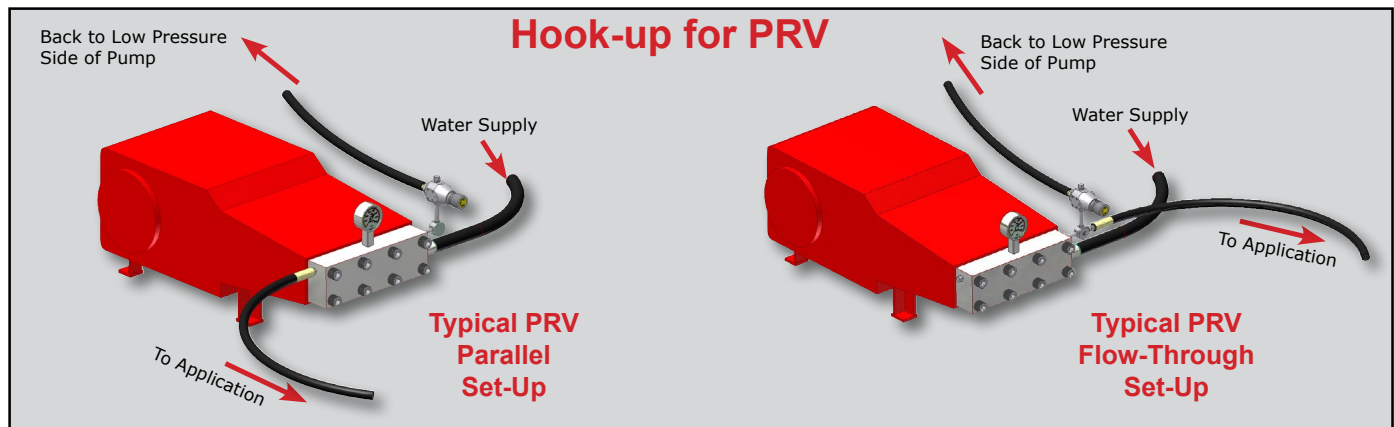
Easy-Change Cartridge Assembly

The cartridge assembly enables rebuilding of the FDV in the field in 30 seconds or less with common tools.

15K FDV Cartridge
#70-010-004



ITEM	PART #	DESCRIPTION
1	65-110-002	PRV Body, 15K
2	65-110-003	PRV Adjuster Handle
3	70-010-013	Diffuser
4	30-001-029	O-Ring, 2-029 Buna-N, 90 Dur.
5	70-110-007	Discharge Adapter, 1/2" NPT(F) 15K
6	70-110-008	Adjuster Handle Clamp
7	70-010-004	FDV Cartridge Assembly
8	10-016-075	Bolt, Hex Head 3/8"-16 X 3/4" SS
9	70-010-019	Decal, FDV/PRV Adjuster Handle
10	30-001-018	O-Ring, 2-018 Buna-N 90 Dur.
11	70-110-009	Hose Barb Fitting 1/2" NPTM x 3/4" Hose Size, Brass
12	30-001-120	O-Ring, 2-120 Buna-N 90 Dur.
13	30-003-120	Parbak Backup Ring



FDV-15K Flow Divider Valve The new Advanced Pressure Systems **Flow Divider Valve (FDV)** is for applications where two dump style guns are to be operated from one pump. The FDV will maintain full pressure to either gun when the other gun is dumping. When both guns are operating, the flow and pressure will be unaffected. These valves are made with rugged construction and easy to set up. The only wear part is a cartridge which can be quickly changed in the field.

Part #	Description
70-022-001	Complete 15K Flow Divider Valve

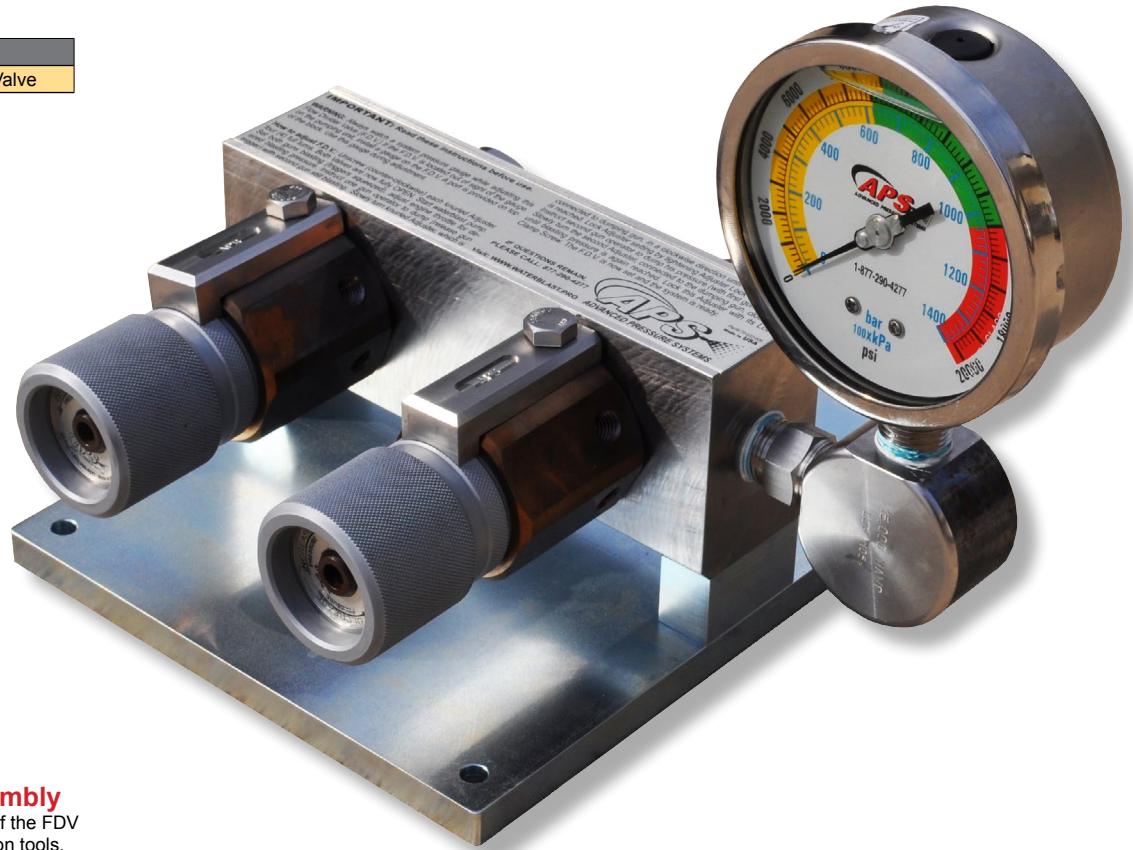
without gauge



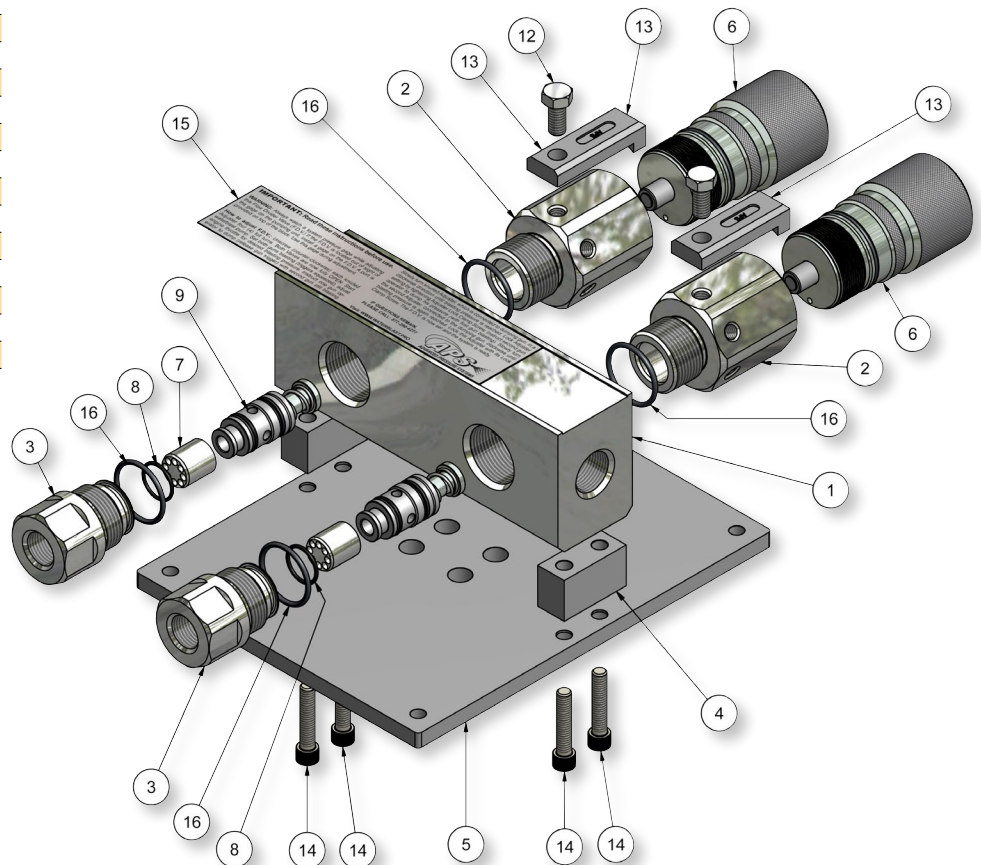
15K FDV Cartridge
#70-010-004

Easy-Change Cartridge Assembly

The cartridge assembly enables rebuilding of the FDV in the field in 30 seconds or less with common tools.



ITEM	QTY	PART #	DESCRIPTION
1	1	70-022-003	15K Flow Divider Valve (FDV) Block
2	2	70-022-017	15K FDV Adjuster Adapter
3	2	70-110-007	15K FDV Discharge Adapter, 1/2" NPT(F)
4	2	70-022-013	Spacer Block
5	1	70-022-014	15K/20K FDV Base Plate
6	2	70-022-004	15K/20K FDV Adjuster Handle
7	2	70-010-013	15K/20K FDV Discharge Diffuser
8	2	30-001-018	O-Ring 2-018
9	2	70-010-004	15K FDV Cartridge Assembly
12	2	10-016-075	Bolt, Hex. Head 3/8"-16 x 3/4" SS
13	2	70-110-008	15K FDV Lock Down Clamp
14	4	10-002-150	SHCS 5/16"-18 x 1-1/2" long SS
15	1	70-022-009	Operating Instructions Decal
16	4	30-001-123	O-Ring 2-123



10-15K Waterblast Pressure Gauges

APS offers a complete range of pressure gauges designed specifically for water blasting applications. Features include stainless steel construction, glycerine filled, clear laminated safety glass, precision movement, easy-to-read, color-coded gauge faces.

Part #	Description	PSI
35-001-001	2.5" size, 1/4" NPT (M) Mount	5-10K
35-001-002	2.5" size, 1/4" NPT (M) Mount	10-15K
35-001-003	4" size, 1/2" NPT (M) Mount	10-15K
35-001-004	6" size, 1/2" NPT (M) Mount	10-15K
35-001-009	4" size, 1/2" NPT (M) Mount	0-5K
35-001-024	4" size, 1/2" BSPP (M) Mount	15K



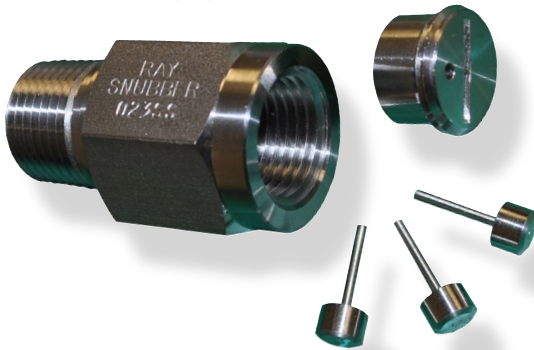
#35-001-024



#35-001-003

Snubbers

Snubbers absorb the system pressure pulses that can cause gauge fluctuations. This enhances accuracy and extends the service life of the gauge.



Part #	Description	PSI
35-002-001	Ray Snubber, 15K 1/2" NPTM X 1/2" NPTF 316 SS	15K

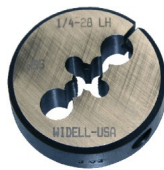
Tools

APS offers a complete line of coning and threading tool kits for manually coning and threading 1/4" O.D. to 9/16" O.D. tubing.

There are three different tool kit versions, "High" pressure, "Medium pressure, and our "Combination Kit" that contains both the Medium and the High Pressure tools. All items are conveniently packaged in a sturdy hand carry tool case with removable top tray. The unique coning and threading tool designs allows for interchange ability between components, eliminating multiple tool inventories.



Coning Tool
 #24-017-010 - 1/4"
 #24-017-011 - 3/8"
 #24-017-012 - 9/16"



Part #	Description
24-018-043	DIE, 1/4"-28 LH X 1 1/2" O.D. PREMIUM THREAD
24-018-044	DIE, 3/8"-24 LH X 1 1/2" O. D. PREMIUM THREAD
24-018-045	DIE, 9/16"-18 LH X 1 1/2" O. D. PREMIUM THREAD
24-018-048	DIE, 1/4"-28 RH X 1 1/2" O.D. PREMIUM THREAD
24-018-049	DIE, 3/8"-24 RH X 1 1/2" O.D. PREMIUM THREAD
24-018-050	DIE, 9/16"-18 RH X 1 1/2" O.D. PREMIUM THREAD

Threading Tool
 #24-119-007 - 1/4"
 #24-119-008 - 3/8"
 #24-119-009 - 9/16"



5-Piece Micro Pick Set
 #15-099-126



Pin Vise used to Clean Nozzles
 #15-099-002 (0-.055") Range
 #15-099-003 (.025-.075") Range



Pin Gage Set
 #15-099-000 (.011"-.060") Range
 #15-099-001 (.0115"-.0605") Range



Nozzle Cleaners
 #15-099-125
 Standard Set - No.6 Thru 26

Lubricants, Sealants and Tapes It is essential to keep the correct lubricants, sealants and Teflon® tapes on hand to guard against leaks and pressure loss, and to protect the threads on all water jetting components. **APS** keeps these items in stock as an added convenience for our customers. Our goal is to always be the first source you call.

Part #	Description	Size
24-001-001	Blue Goop® Thread Lubricant	2 Fl. Oz. Tube
24-001-002	Loctite® Nickel-Based Anti-Seize	1 Lb. Jar
24-001-003	Loctite® 567™ Thread Sealant	1.69 Fl. Oz.
24-001-004	1/2" White Teflon® Tape	520 Ft. Roll
24-001-005	3/4" White Teflon® Tape	520 Ft. Roll
24-001-006	1/2" Blue Monster® Premium Teflon®	1,429 Ft. Roll
24-001-007	3/4" Blue Monster® Premium Teflon® Tape	1,429 Ft. Roll
24-001-009	Jet-Lube 550	1/2 Lb. Jar
24-001-010	Jet-Lube 550	1 Lb. Jar
24-001-011	Yellow Lube®	6-6 Oz. sq tube
24-001-013	Loctite® Clover Compound, Grease Mix	16 Oz. Net WT
24-001-014	Loctite® Clover Compound, Water Mix	6-6 oz sq tube
24-001-020	Lubritech® Air Lube Airline Lubricants	16 Fl. Oz. Bottel
24-001-015	Lubemaster® Permalube 4099	14.8 Oz. Tube
24-001-020	LubriMatic® White Lithium Grease	16 Oz. Can



Blue Goop® Thread Lubricant (Excellent anti-seize lubricant, especially for 40K applications.) **Part# 24-001-001** Oil-based thread lubricant for use on stainless steel, steel, titanium, aluminum, and nickel-based alloys.



Loctite® Nickel-Based Anti-Seize Part# 24-001-002 A heavy duty, high temperature lubricant; it resists galling and corrosion, reduces wear in heavy pressure applications, contains oils and graphite which cannot be burned away or be removed by slow moving parts.



Loctite® Clover Compound, Grease Mix Part# 24-001-013 Silicon carbide particles in a grease mix. Perfect for smoothing and finishing of metal surfaces. Retains its texture and lubrication properties during extended use. Uses include cleaning corroded threads, valve rebuilding, smoothing gears, removing tool marks, lapping for flatness.



1/2" Blue Monster® Premium Teflon® Part# 24-001-006 Blue Monster is rugged, not flimsy like most thread seal tapes on the market. Blue Monster has not been stretched during the manufacturing process, so it is thicker and creates a more effective seal with less tape. Blue Monster could be used in conjunction with # 24-001-003 Loctite® Thread Sealant for all NPT Threads.



Jet-Lube 550 1 LB. Net WT. Part# 24-001-010 1/2 LB. Net WT. Part# 24-001-009 550 contains carefully balanced proportions of molybdenum disulphide (MoS2), graphite, and low friction fillers in an aluminum complex base grease that is fortified with effective rust and corrosion inhibitors. 550 assures protection against rust, oxidation and corrosion. It will not harden, evaporate, or settle out; and it requires no thinning. 550 is the ideal product for petrochemical plants' maintenance needs.



Applications: Threads, Flange Faces, Keyways, Gaskets. Slides, Guides and Fittings

LubriMatic® White Lithium Grease Part# 24-001-016 Includes zinc additive for a clean, white color. Ideal for general home, shop, automotive, agricultural and industrial applications. NLGI #2, drop point 393 Deg. F.



Loctite® 567™ Thread Sealant (Designed for the locking and sealing of tapered metal threads & fittings NPT.) **Part# 24-001-003** Designed for the locking and sealing of metal tapered threads and fittings. The product cures when confined in the absence of air between close fitting metal surfaces and prevents loosening and leakage from shock and vibration. The high lubricating properties of this compound prevent galling on stainless steel, aluminum and all other metal pipe threads and fittings.



Yellow Lube

3 oz. Tube Part# 24-001-023

6 oz. sq tube -Part# 24-001-011 Very good general purpose anti-seize lubricant which also helps to seal tapered threads.

Yellow Lube is a thread compound employing a heavy duty sulfur/phosphorus extreme pressure additive package for a variety of types and combinations of metals. Galling of threads is virtually impossible.



Loctite® Clover Compound, Water Mix Part# 24-001-014

Paste formulation for fast metal removal. Biodegradable, recommended for applications where cleanup with water is required.



White 1/2 Teflon® Tape 520 Ft. Roll Part# 24-001-004

White 3/4 Teflon® Tape 520 Ft. Roll Part# 24-001-005

The use of Teflon Tape on MPT fittings will help to prevent leaks.



Lubritech® Air Lube Airline Lubricants Part# 24-001-020 Air Lube Airline Lubricants are formulated specifically to absorb the moisture present in compressed air used in pneumatic tools, air motors and cylinders. They contain a unique emulsifier system designed to encapsulate up to 10% of its weight in water, while corrosion inhibitors form a protective film on metal surfaces, preventing oxidation and rust formation. Made from highly thermally stable base stocks, these hard-working lubricants help eliminate varnish formation and associated valve sticking. Air Lube Airline Lubricants will not leave hard carbon deposits or effect rubber or plastic valves and seals.



Lubemaster® Permalube 4099 (Tube)

Part# 24-001-015 This grease is for the Cobra Gun.

