

Opti-Flow Gas Lift Equipment Catalog

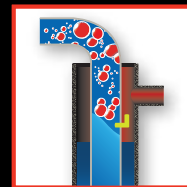


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Well OptimizedSM

The industry leader in production optimization, PCS has perfected its products and services for more than 25 years. In addition to Opti-Flow Gas Lift, we offer Plunger Lift, Nitrogen Generation and well site Automation—all designed to maximize production throughout the entire life span of the well.

From initial kick-off to depletion, you'll find PCS has the products, expertise and commitment to service excellence you're looking for in a well optimization partner:

- **Sales and service locations in the major oil and gas plays**
- **In-house design, engineering and manufacturing capabilities at our Colorado and Houston locations**
- **Experienced and responsive field support staff**
- **Comprehensive training programs**

At PCS, we know our success is dependent upon yours. When you need better, more efficient and cost-effective production that clearly and quickly impacts your bottom line, you can trust the professionals at PCS. For more information about Opti-Flow Gas Lift and PCS well optimization products and services, please contact your local PCS sales and service office or visit us on the web at: www.pcslift.com.



Opti-Flow Gas Lift by PCS

Gas lift is an efficient, simple and widely used method of artificial lift for oil and gas wells where liquid loading occurs. It is an effective means of artificial lift for producing wells that do not have the natural energy to deliver liquids to the surface at desired rates.

In the gas lift well, compressed gas is injected into the production string through gas lift valves fitted in integral mandrels. The mandrels are installed as part of the tubing string and are situated at prescribed intervals. The design of the system and placement of the mandrels are based on well characteristics, with the objective being to inject gas to the deepest possible point to increase the flow velocity, reduce pressure and deliver produced fluids to the surface.

The gas lift valves open and close based on tubing and casing pressures. As the gas is injected, it expands and moves to the surface, aerating the fluid and consequently reducing fluid density and column weight. This reduces the flowing tubing pressure, creating a differential pressure between the reservoir and the well bore, allowing the well to produce at its optimum rate.



Advantages of Gas Lift vs. Other Artificial Lift Methods:

- Gas lift installations can generally handle the flowing conditions throughout the life of the well. Changing reservoir pressures, water cuts and formation gas rates can be taken into account with the initial design.
- Gas lift equipment is durable and has few moving parts. A longer life can be expected compared to other means of artificial lift.
- Low initial installation cost.
- Low maintenance cost.
- Operator can control production rates from the surface.
- Produced sand has little effect on gas lift equipment.
- Gas lift is well suited for high deviations and horizontal well bores.

Eight Facts about Gas Lift:

- 1 Gas lift can produce almost any oil or gas well that requires artificial lift.
- 2 Gas lift is limited only by the availability of gas.
- 3 Gas lift can unload and kick-off wells that flow on their own.
- 4 Gas lift can increase the rate of some flowing wells.
- 5 Gas lift can increase the velocity in a gas well to ensure produced fluids are recovered at the surface.
- 6 Large tubing or annular flow gas lift can be utilized to produce extremely high rates.
- 7 Intermittent gas lift can produce wells with low production rates or low reservoir pressure.
- 8 Side pocket gas lift mandrels can be installed with dummy valves in the initial completion when the well may flow on its own. Later, when the well has loading problems, gas lift valves can be installed with wireline to enable the gas lift system and maximize production.

PCS offers an extensive selection of gas lift equipment in various sizes and materials to ensure optimal production from your gas lift system. Gas lift equipment falls into one of two categories: **tubing retrievable** and **wireline retrievable**.

Economical and efficient, the tubing retrievable gas lift system of mandrels and valves is installed integrally with the tubing string. This type of gas lift is most commonly used onshore.

MANDRELS

The SR Series and JR Series gas lift mandrels are tubing retrievable mandrels installed as an integral component of the tubing. The external ported lug of the mandrels is used to carry tubing retrievable gas lift and orifice valves. Both mandrels can be used in either a single or dual string completion. Several mandrels may be installed in the tubing while maintaining post completion operations through the bore of the mandrel.

- Full, open flow area (same as tubing I.D.)
- Guard plates and lug protect valve from damage during installation
- Various materials and thread connections provide compatibility with all current production tubing
- Drift I.D. compatible with tubing connection drift in most tubing thread types, sizes and weights
- Available in various materials for standard, H2S service and hostile well environments
- Available in standard sizes from 2 1/8" to 4 1/2" O.D. (production string); other sizes on request

SR Series

The mandrel's external ported lug is configured for 1 1/2" O.D. tubing retrievable gas lift equipment.

JR Series

The mandrel's external ported lug is configured for 1" O.D. tubing retrievable gas lift equipment.

TUBING RETRIEVABLE GAS LIFT MANDRELS SPECIFICATION GUIDE

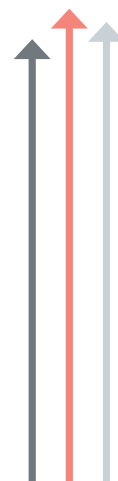
Tubing Size (in.)	Mandrel Lug I.D. (in.)	Mandrel Model	Mandrel O.D. (in.)*	Drift I.D. (in.)**	Mandrel Length (in.)*
2 3/8	1.00	JR	3.782	1.901	51
	1.50	SR	4.282	1.901	51
2 7/8	1.00	JR	4.335	2.347	51
	1.50	SR	4.835	2.347	51
3 1/2	1.50	SR	5.57	2.867	51

* O.D. and length dimensions include coupling

** Mandrel Drift I.D. may vary according to the type of thread connection



SR and JR Series Gas Lift Mandrel



LM Series

The mandrel's external ported lug is configured for $\frac{5}{8}$ " O.D. tubing retrievable gas lift equipment.

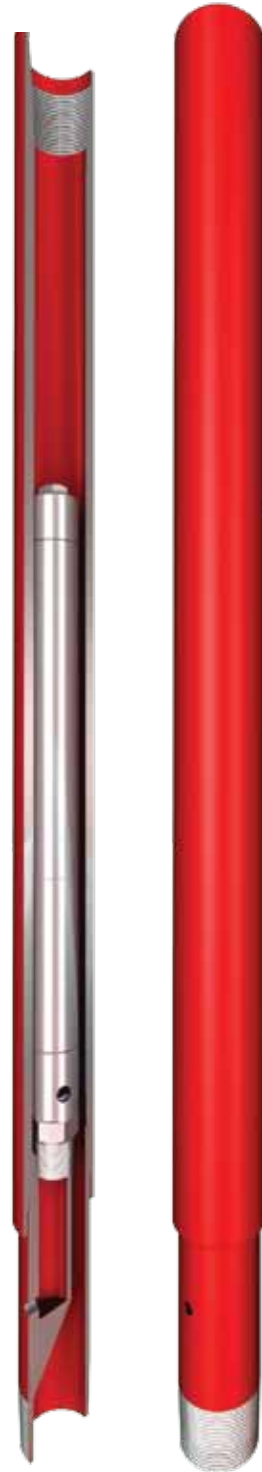
IM Series

These mandrels are also installed as an integral component of the tubing string, but unlike the SR and JR Series, they feature internally mounted gas lift and check valves. The IM mandrel has the same O.D. dimensions as the tubing, making it ideal for special applications:

- Wells with limited clearance between tubing and casing
- In the injection string for casing flow
- In the production string for tubing flow with a reverse flow valve
- Available in standard sizes from 1" to 2 $\frac{7}{8}$ " O.D. (production string); other sizes on request



LM Series
Gas Lift Mandrel



IM Series Gas Lift
Mandrel

GAS LIFT AND CHECK VALVES

PCS offers a comprehensive line of valves and accessories for either injection pressure or production pressure operation. Designed to anticipate changes in well characteristics and manufactured to the highest quality standards, our gas lift and check valves offer exceptional performance and reliability over the life of the well.

TP Series Gas Lift Valves

The TP Series gas lift valves are tubing retrievable, injection pressure operated valves with a nitrogen charged dome and bellows configuration. The valve's dome charge pressure is calculated for proper valve operation at the designed depth and temperature of operation. The dome pressure charge is preset prior to installation in the gas lift mandrel. These normally closed valves are opened after the gas lift injection pressure overcomes the downward force of the dome charge pressure above the bellows.

TP Series gas lift valves are designed for intermittent or continuous flow applications with tubing retrievable gas lift mandrels. Smaller size valves are available for use with the IM and CT-IM special application mandrels for packoff, special clearance and smaller diameter installations.

- Large dome volume improves operating efficiency
- Port sizes from 1/8" to 1/2" for optimum gas passage
- Reverse flow check valve (TP-1 and TP-1.5 models)
- Mechanical travel stop increases the cycle life of the bellows
- Three-ply Monel® bellows extends life
- Silicon fluid bellows protection
- Replaceable floating Monel® seat (tungsten material available)
- Silver-brazed bellows connections
- Stainless steel or Monel® materials available
- Pressure rating up to 1800 psi P_{tro} maximum
- Temperature rating of 280° F (standard service)
- Available in 5/8", 1" or 1 1/2" O.D.

TP Valve Series

- The TP-.625 model is a 5/8" O.D. valve
- The TP-1 model is a 1" O.D. valve
- The TP-1.5 model is a 1 1/2" O.D. valve

TP SERIES SPECIFICATION GUIDE

Valve Series Model	AB Effective Bellows Area (sq.in.)	Port Size (in.)	AP* Area Of Port (sq.in.)	Ap/Ab Ratio	1-(Ap/Ab)	PPEF Ap/Ab 1-(Ap/Ab)
TP-.625	0.12	5/32	0.019	0.1598	0.8402	0.190
	0.12	3/16	0.0276	0.2301	0.7699	0.299
TP-1	0.31	1/8	0.014	0.044	0.956	0.046
	0.31	3/32	0.021	0.067	0.933	0.072
	0.31	3/16	0.029	0.095	0.905	0.105
	0.31	1/4	0.052	0.166	0.834	0.199
	0.31	5/16	0.080	0.257	0.743	0.346
TP-1.5	0.31	3/8	0.114	0.368	0.632	0.582
	0.77	3/16	0.029	0.038	0.962	0.040
	0.77	1/4	0.052	0.067	0.933	0.072
	0.77	5/16	0.080	0.104	0.896	0.115
	0.77	3/8	0.114	0.148	0.852	0.174
	0.77	7/16	0.154	0.200	0.800	0.250
	0.77	1/2	0.201	0.261	0.739	0.353

*Port diameter based on port size plus .006" for lapped seat



TC Series Check Valves

The TC Series valves are tubing retrievable, spring loaded check valves with an NPT bottom connection. Used in conjunction with tubing retrievable injection valves that do not have an integral check valve, these valves provide casing protection from back flow through the injection valve. When the gas flow is permitted into the tubing through the valve, the check dart is depressed. When flow is from tubing to casing, the check valve seats. A metal-to-metal seal is established as differential pressure is increased.

These valves are used with tubing retrievable gas lift valves that do not have an integral check valve, such as the TP-1 and TP-1.5 gas lift valves. A primary application for these valves is preventing back flow from the injection valve which may damage the casing. Other applications include preventing production commingling in dual gas lift installations and improving pressure integrity during acidizing and circulation operations.

- Eliminates the need to re-unload casing liquid by preventing casing fill-up during shut down
- Stainless steel or Monel® material
- Inconel® spring
- Combination resilient and metal-to-metal seat for bubble-tight seal
- Check valves can be stacked for additional protection
- Seal system options available

TC Valve Series

- The TC-1 model is a 1" O.D. check valve
- The TC-1.5 model is a 1 1/2" O.D. check valve

TC SERIES SPECIFICATION GUIDE				
Valve Series Model	Valve O.D. (in.)	Port Size (in.)	Connection Thread Type	Mandrel
TC-1	1.00	7/16	1/2" NPT	JR Series
TC-1.5	1.50	1/2	1/2" NPT	SR Series



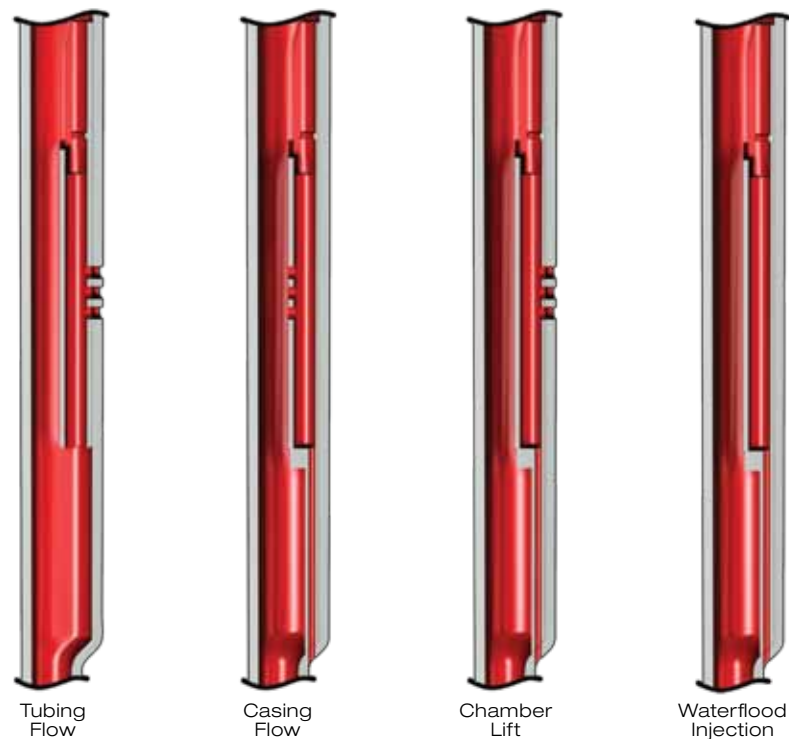
The wireline retrievable gas lift system utilizes side pocket mandrels that are installed integrally in the tubing string, but the gas lift valves and latches can be retrieved and replaced with wireline to avoid costly workover operations. This type of installation is typically used offshore and in inland waters.

SIDE POCKET MANDRELS

PCS offers a comprehensive line of side pocket mandrels for a variety of well completion applications. Our engineering, manufacturing and quality processes represent years of experience and dedication to providing top quality side pocket mandrels with enhanced features and specifications to meet the most demanding requirements.

Our family of side pocket mandrels includes both oval and round body configurations. The oval body mandrels, with either machined or forged pocket designs, are typically used in dual string completions. The round body mandrels are full opening mandrels commonly used in high pressure environments and special clearance applications.

Each mandrel features a standard side pocket profile to receive gas lift valves, chemical injection valves, circulating valves, dummy valves, dump kill valves and related equipment. Several different pocket porting configurations are available for applications such as waterflood injection, chamber lift, chemical injection and annular (casing) flow.



D and F Series Oval Body Side Pocket Mandrels

The D and F Series mandrels are used as an internal receiver for the installation and retrieval of gas lift valves and related equipment without having to pull or rerun the tubing string. They can be installed in deviated or straight well bores depending upon the mandrel model type. The external shape of these oval body mandrels makes them ideal for dual completion applications.

- Machined pocket and guards (D Series)
- One-piece forged pocket deflector (F Series)
- Models with and without a slotted orienting sleeve to accommodate setting and retrieving in straight and deviated well bores
- Tubing string connection threaded on both swaged sections with appropriate terminal threads
- Accepts standard gas lift equipment for pocket configuration
- Variety of pocket configurations for specialized applications
- Drift I.D. compatible with tubing connection drift in most tubing thread types, sizes and weights
- Available in standard or H2S service
- 4130 material for standard and H2S service, with other materials available upon request

D Series Side Pocket Mandrels

The mandrels in this series feature machined pockets and guards. Several mandrel configurations with 1" and 1 1/2" I.D. pockets are available.

F Series Side Pocket Mandrels

This series features a one-piece forged pocket deflector, 1" pocket I.D. and a 180° latch pocket profile.

D and F Series Oval Side Pocket Mandrel





R, H and U Series Round Body Side Pocket Mandrels

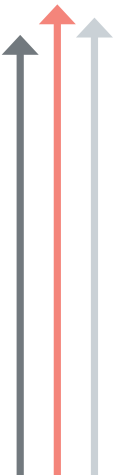
The R, H and U Series side pocket mandrels feature a round body design with machined pocket and guards. These mandrels are installed as a component of the tubing string, and the pocket acts as a landing nipple for retrievable gas lift equipment. The mandrel pocket is offset from the bore of the tubing, allowing post completion tools to pass through the mandrel without restriction.

The round body design offers higher burst and collapse pressure ratings than most oval body designs. Special clearance and high pressure features are incorporated into specific series and models. All configurations include an integral orienting sleeve to orient the kickover tool to the mandrel side pocket for precise alignment and installation of devices. Mandrels with an orienting sleeve can be installed in both straight and deviated well bores. Mandrels without an orienting sleeve can only be installed in straight well bores.

These side pocket mandrels are primarily used in single completions. Dependent upon the mandrel series, special applications include high burst and collapse pressure ratings, deep or high pressure applications and special clearance requirements.

- Round body design and variety of pocket configurations ideal for special applications
- Orienting sleeve to provide positive alignment to the pocket during wireline operations
- Available in various materials and hardness ranges to meet a variety of service environments
- Machined pocket and guards
- Models available with and without a slotted orienting sleeve to accommodate setting and retrieving in straight and deviated well bores
- Deep and/or high pressure applications (H Series)
- Special clearance O.D. for installation in small casing sizes where standard O.D. mandrels may not be practical (U Series)
- Tubing-string connection threaded on both swaged sections with appropriate terminal threads. Special clearance applications may require special thread connections
- Drift I.D. compatible with tubing-connection drift in most tubing thread types, sizes and weights
- 4130 material for standard and H2S service, with other materials available upon request
- Accept all standard 1" and 1 1/2" gas lift equipment

R, H and U Series Round Side Pocket Mandrel



R Series Side Pocket Mandrels

These round body mandrels with 1" and 1 1/2" I.D. pockets are available in several configurations.

H Series Side Pocket Mandrels

These high pressure mandrels have a 1" pocket I.D. and feature an enhanced burst and collapse pressure rating design for compatibility with most heavyweight tubulars. This series is primarily used for deep and/or high pressure applications.

U Series Side Pocket Mandrels

These mandrels have a 1" pocket I.D. and feature a special clearance O.D. for installation in small casing sizes where standard O.D. mandrels may not be practical. The 1H high pressure model features a 1" I.D. pocket and no orienting sleeve.

Side Pocket Mandrel Selection Guide

Most of the special features for a side pocket mandrel are identified in the product nomenclature. The chart below will assist in selecting the appropriate mandrel for a given size and application.

PRODUCT IDENTIFICATION			
X X/X Tubing Size	-XX Valve Size	-XX Body Pipe Shape	-XX Configuration Options
The following is an example of a PCS round body mandrel with 1.5" pocket I.D., 180° G-type Latch Pocket Profile and Integral Orienting Sleeve. EXAMPLE: 3 1/2" - 1.5RSO			
	Tubing Size:	Per customer requirements	
	Valve Size:	1	1" Valve Outside Diameter
		1.5	1.5" Valve Outside Diameter
	Body Pipe Shape:	F	Oval Forged Pocket
		D	Oval or Dual
		R	Round
		H	High Pressure
		U	Special Clearance - Round
	Type Configuration:	G	"G" 180° Latch Profile
		SO	Selective - Orienting With Guards
		W	Waterflood
		CI	Chemical Injection
		CIS	Chemical Injection with Snorkel
		E	Chamberlift Installation
		EC	Casing Flow

GAS LIFT VALVES AND LATCHES

WP Series Gas Lift Valves

The WP Series gas lift valves are retrievable, injection pressure operated valves with a nitrogen charged dome and bellows configuration. Since the charge pressure above the bellows is affected by temperature, it is important to use accurate operating depth temperature information when calculating the set pressure. The nitrogen dome pressure is preset at a reference temperature and corrected to an operating depth temperature for the desired application. The valve is held on seat by the downward force of the nitrogen charge inside the bellows.

For intermittent or continuous gas lift, WP Series valves can be used in tubing or casing flow applications depending on pocket porting configurations.

- Maximum travel stop increases the cycle life of the bellows
- Integral reverse flow check valve to prevent tubing-to-casing communication
- Three-ply Monel® bellows
- Compatible with all common top latches
- Silicon dampening fluid minimizes throttling effects
- Replaceable floating Monel® or tungsten carbide seat
- Silver-brazed bellows connections
- Guidance system designed to prevent corkscrew of the bellows
- Stainless steel or Monel® materials available
- Pressure rating up to 1800 psi P_{tro} maximum
- Temperature rating of 280° F (standard service)
- Port sizes from 1/8" to 1/2"
- Standard Viton® packing element system with other packing materials available

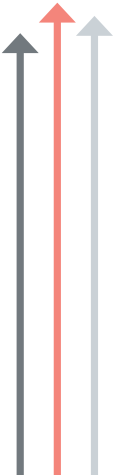
WP Valve Series

- The WP-1 model is a 1" O.D. valve
- The WP-1.5 model is a 1 1/2" O.D. valve

WP SERIES SPECIFICATION GUIDE

Valve Series Model	AB Effective Bellows Area (sq.in.)	Port Size (in.)	AP* Area Of Port (sq.in.)	Ap/Ab Ratio	1-(Ap/Ab)	PPEF Ap/Ab 1-(Ap/Ab)
WP-1	0.31	1/8	0.014	0.044	0.956	0.046
	0.31	5/32	0.021	0.067	0.933	0.072
	0.31	3/16	0.029	0.095	0.905	0.105
	0.31	1/4	0.052	0.166	0.834	0.199
	0.31	5/16	0.080	0.257	0.743	0.346
	0.31	3/8	0.114	0.368	0.632	0.582
WP-1.5	0.77	3/16	0.029	0.038	0.962	0.040
	0.77	1/4	0.052	0.067	0.933	0.072
	0.77	5/16	0.080	0.104	0.896	0.115
	0.77	3/8	0.114	0.148	0.852	0.174
	0.77	7/16	0.154	0.200	0.800	0.250
	0.77	1/2	0.201	0.261	0.739	0.353

*Port diameter based on port size plus .006" for lapped seat



Latches for Side Pocket Mandrels

PCS offers a wide range of latches for installing wireline retrievable gas lift and chemical injection equipment in side pocket mandrels. Latches are specifically designed to lock in place. To retrieve a latch and attached valve, upward jarring of the tool string shears the release shear pin, permitting the locking mechanism to disengage from the latch pocket profile.

180° G-type Latch Pocket Profile

Latches for a 180° latch pocket profile have a spring loaded, ring style locking mechanism. A ported I.D. is included in some designs for applications requiring a communication path between the latch and attached valve.

BK-2 Latch Series

- BK-2 and BK-2-P are used to secure a 1" valve or dummy valve in a side pocket mandrel with a 1" I.D. pocket
- The BK-2-P model has a ported I.D.

RK Latch Series

- RK and RK-P are used to secure a 1 1/2" valve or dummy valve in a side pocket mandrel with a 1 1/2" I.D. pocket
- The RK-P model has a ported I.D.

LATCH SPECIFICATION GUIDE

Valve Pocket I.D. (in.)	Latch Pocket Profile	Latch Model	Latch Mechanism	Ported I.D. (in.)	Pulling Neck O.D. (in.)	Running Neck O.D. (in.)	Maximum Valve O.D. (in.)
1.00	180°	BK-2	Lock-Ring	No	0.875	0.750	1.359
	180°	BK-2-P	Lock-Ring	Yes	0.875	0.750	1.359
1.50	180°	RK	Lock-Ring	No	1.187	0.937	1.786
	180°	RK-P	Lock-Ring	Yes	1.187	0.937	1.786



WD Series Dummy Valves

The WD Series dummy valves are retrievable, isolation tools installed in a side pocket mandrel to block the mandrel's injection ports. The valve with appropriate latch may be installed or retrieved prior to or after completion of various procedures.

Used to seal off the pocket of a side pocket mandrel, the dummy valve prevents communication between the casing and tubing. These valves are also used to blank off the tubing for production until gas lift valves are required. Other applications include pressurizing the tubing in various procedures, isolating tubing and casing flow during single alternative production and isolating tubing and casing flow for test purposes during multi point water or gas injection floods.

- Stainless steel or Monel® materials available
- Two sets of packing to straddle and pack off casing ports
- Accepts most common top latches
- Installs in most mandrel pockets depending on valve model

WD Series Dummy Valves

- The WD-1 model is a 1" O.D. valve
- The WD-1.5 model is a 1 1/2" O.D. valve

WD SERIES SPECIFICATION GUIDE

Valve Series Model	Valve O.D. (in.)	Latch Type
WD-1	1.00	BK-2
WD-1.5	1.50	RK,RA

Compatible running and pulling tool information available upon request



WO Series Orifice Valves

The WO Series valves are retrievable, single point injection orifices. A replaceable orifice controls the volume of gas through the open valve into the production conduit. A spring loaded, reverse flow check valve is incorporated as an integral part of both valve series.

Used to establish communication from the annulus to the tubing during circulating operations, these valves are installed in their respective side pocket mandrels and utilized in single point, continuous flow completions. These valves have no closing function and are commonly used to control stable injection at the operating valve depth.

- Stainless steel or Monel® materials available
- Orifice sizes from 1/8" to 1/2" diameter ports
- Flow capacity governed by orifice size
- Replaceable floating orifice
- Spring loaded, reverse flow check valve

WO Series Orifice Valves

- The WO-1 model is a 1" O.D. valve
- The WO-1.5 model is a 1 1/2" O.D. valve

WO SERIES SPECIFICATION GUIDE

Valve Series Model	Valve O.D. (in.)	Latch Type	Max. Port Size (in.)
WO-1	1.00	BK-2	5/16
WO-1.5	1.50	RK,RA	1/2





WF Series Gas Lift Valves

The WF Series gas lift valves are spring loaded, production pressure operated valves for installations using tubing pressure to open and close the valve. Since the force of the preset spring tension holds the valve stem on seat, there is virtually no downhole temperature effect on the operation of the valve. The integral reverse flow check valve provides protection from production fluid flow into the casing. Tubing pressure is communicated to the bellows through a crossover seat.

For intermittent or continuous gas lift, the WF Series valves are an excellent choice for dual gas lift systems and applications where injection pressure is unstable.

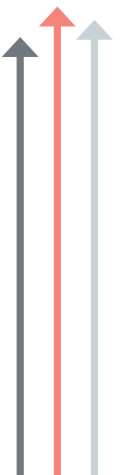
- Spring loaded non-temperature sensitive valve
- Maximum travel stop increases cycle life of bellows
- Integral reverse flow check valve to prevent tubing-to-casing communication
- Three-ply Monel® bellows extends life
- Accepts all common top latches
- Silicon dampening fluid minimizes throttling effects
- Replaceable floating Monel® or tungsten carbide seat
- Silver-brazed bellows connections
- Guidance system designed to prevent corkscrew of the bellows
- Stainless steel or Monel® materials available
- Pressure rating up to 1800 psi P_{tro} maximum
- Temperature rating of 280° F (standard service)
- Port sizes from 1/8" to 1/4"
- Standard Viton® packing element system with other packing materials available
- High pressure spring available for high set pressures

WF Valve Series

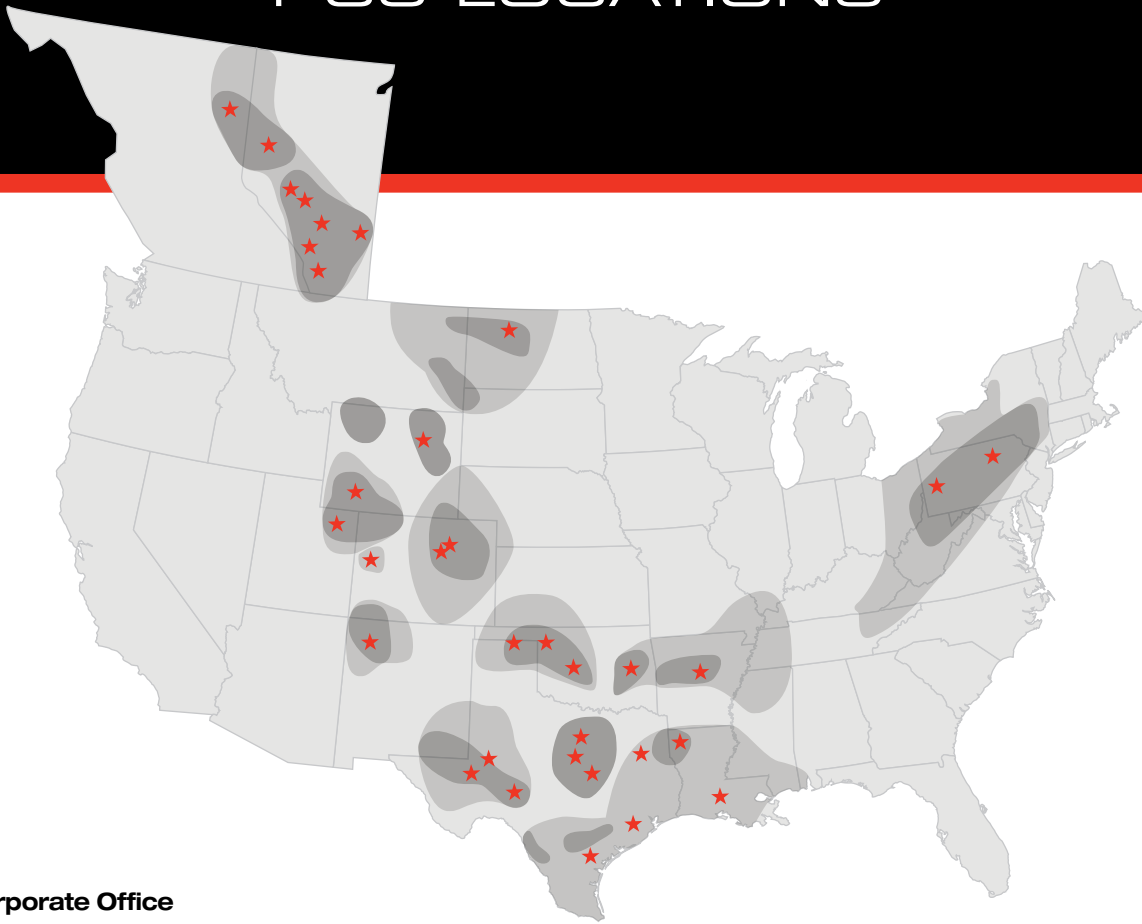
- The WF-1 model is a 1" O.D. valve

WF SERIES SPECIFICATION GUIDE						
Valve Series Model	Ab Effective Bellows Area (sq. in.)	Port Size (in.)	Ap* Area Of Port (sq. in.)	Ap/Ab Ratio	1-(Ap/Ab)	PPEF Ap/Ab 1-(Ap/Ab)
WF-1	0.31	1/8	0.014	0.044	0.956	0.046
	0.31	5/32	0.021	0.067	0.933	0.072
	0.31	3/16	0.029	0.095	0.905	0.105
	0.31	1/4	0.052	0.166	0.834	0.199

*Port diameter based on port size plus .006" for lapped seat



PCS LOCATIONS



Corporate Office

Frederick, Colorado 720.407.3550

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