

LUBRICATION SCIENTIFICS, LLC

THE RIGHT PRODUCTS. THE RIGHT VALUES. THE RIGHT CHOICE.



CHECK VALVES & ACCESSORIES

OUTLET CHECKS—TERMINATING CHECKS—DOUBLE & SINGLE BALL



CHECK VALVES & ADAPTERS



PRODUCT DESCRIPTION

CHECK VALVES CONSTRAIN LUBRICATION FLOW TO ONE DIRECTION

INLET AND OUTLET CHECK VALVES ARE INTEGRATED INTO THE SYSTEM TO ENSURE PROPER LUBRICATION SYSTEM OPERATION. WHEN USED IN TANDEM, OUTLET & INLET CHECK VALVES PREVENT SYSTEM BACK PRESSURE FROM STALLING/DAMAGING VALVE COMPONENTS WHILE KEEPING OIL LINES FULL

OUTLET CHECK VALVES ARE AVAILABLE IN SINGLE BALL, CONVENTIONAL DESIGN (REQUIRES ADDITIONAL TUBE FITTING) AND SINGLE BALL WITH INTEGRAL FITTING (NO ADDITIONAL TUBE FITTING REQUIRED)

INLET CHECK VALVES (TERMINATING INJECTION CHECK) ARE AVAILABLE IN SINGLE BALL AND DOUBLE BALL HIGH OUTPUT, CONVENTIONAL DESIGN (REQUIRES ADDITIONAL TUBE FITTING) AND DOUBLE BALL WITH INTEGRAL FITTING (NO ADDITIONAL TUBE FITTING REQUIRED)

CONNECTION ADAPTERS MAKE THIS PRODUCT LINE VERSATILE AND REDUCES INVENTORY COSTS

BENEFITS & FEATURES

COIN SEATED CHECK VALVES FOR SUPERIOR SEALING

ALL SPRINGS & CHECK BALLS ARE CORROSION RESISTANT, 316 STAINLESS STEEL

VALVES AVAILABLE IN 303 AND 316 STAINLESS STEEL

SINGLE AND DOUBLE BALL CHECK VALVES AVAILABLE

NPTF, BSPP, METRIC, O-RING SEAL, AND TUBE FITTING CONNECTION OPTIONS

MULTIPLE OPENING PRESSURES AVAILABLE

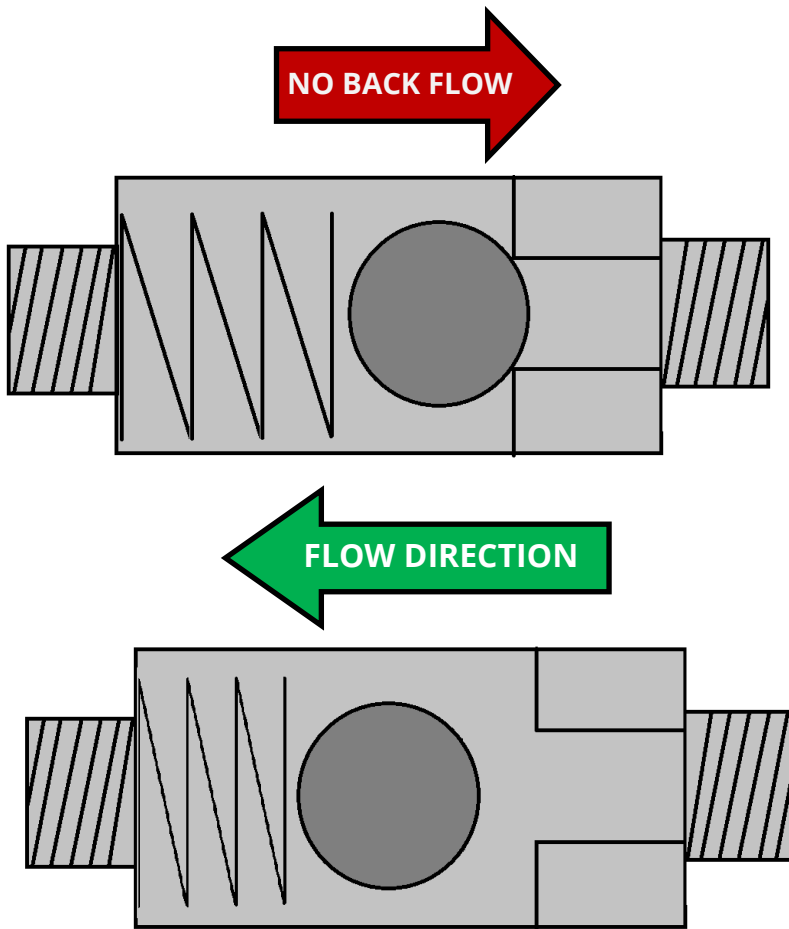
READY FOR IMMEDIATE SHIPMENT

MADE IN



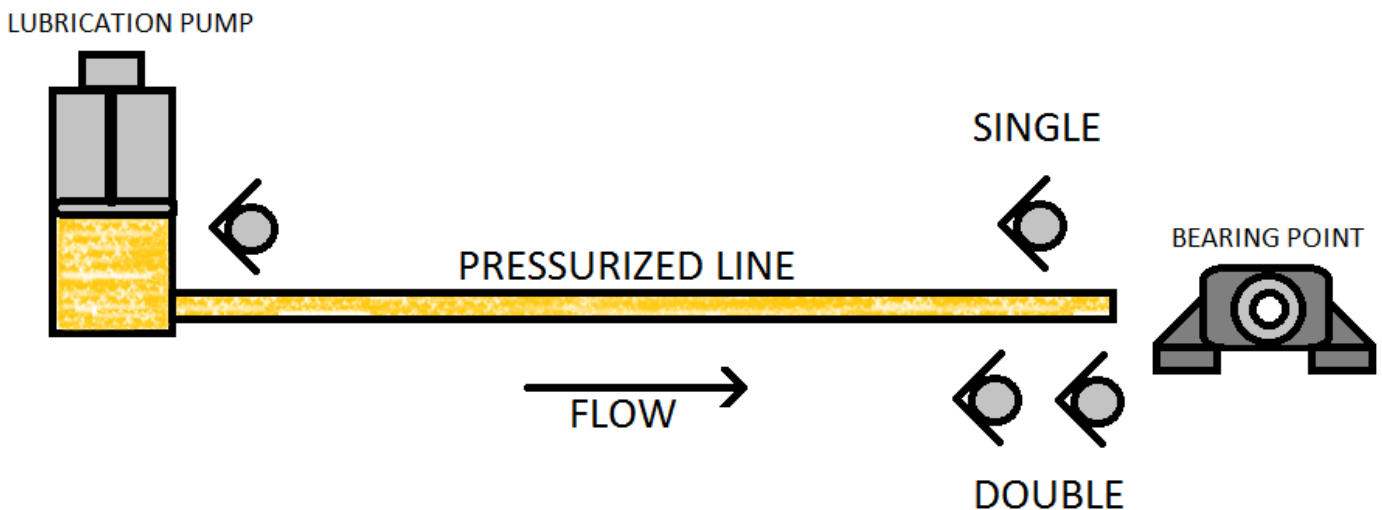
WWW.LUBRICATIONSCIENTIFICS.COM

FUNCTION ILLUSTRATION & SPECIFICATIONS



CHECK VALVE FUNCTION ILLUSTRATION

The single and double ball check valves are in place to constrain the lubrication to one direction while ensuring lube lines stay full and valves function properly. During a lube event, a pump is operating, injecting pressurized lubricant into the system. Without check valves in place, the lube lines would not stay pressurized. Every time the pump cycles, it will inject a specific amount of pressurized lubricant through a check valve by unseating and passing through a steel ball. Once the pressure backs off and the pump resets, the pressure will let off, reengaging a spring which resets the ball and closes the valve. This allows the line to remain pressurized. The double ball option is available and offers a safe guard from any bypass if a ball fails to seat properly. All ball bearings are coined to help eliminate potential backflow due to improper seating.

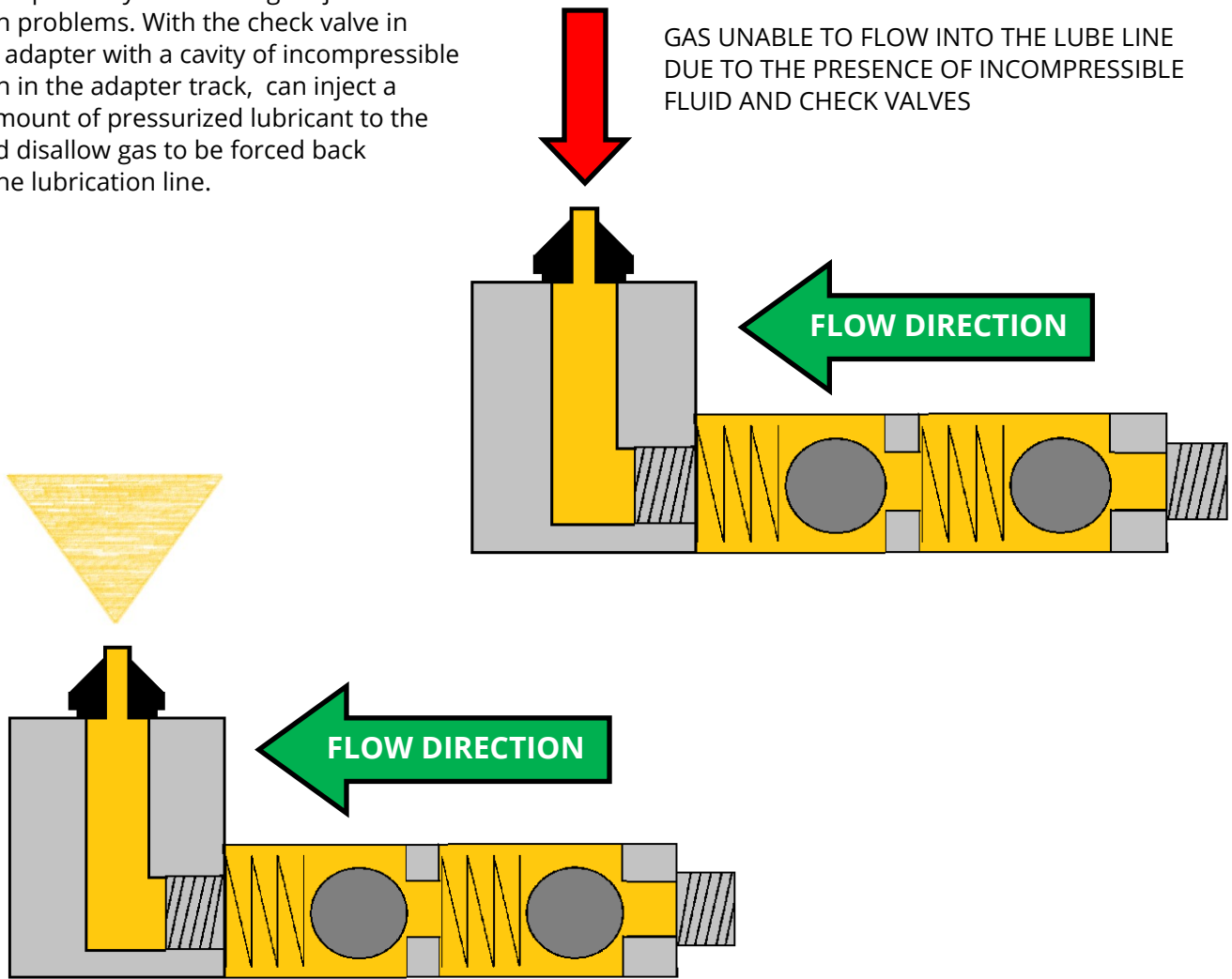


FUNCTION ILLUSTRATION & SPECIFICATIONS

DOUBLE BALL CHECK VALVE W/ ADAPTER

Double ball (terminating injection) check valves are in place to ensure lubrication travels in one direction and the lube lines stay filled with lubrication up to the injector.

During this lube event, a compressor is operating; injecting pressurized lubricant into the system. Without check valves in place, the injection system would drain out and allow pressurized gas through the line every time the compressor piston cycles creating major lubrication problems. With the check valve in place, the adapter with a cavity of incompressible lubrication in the adapter track, can inject a specific amount of pressurized lubricant to the piston and disallow gas to be forced back through the lubrication line.



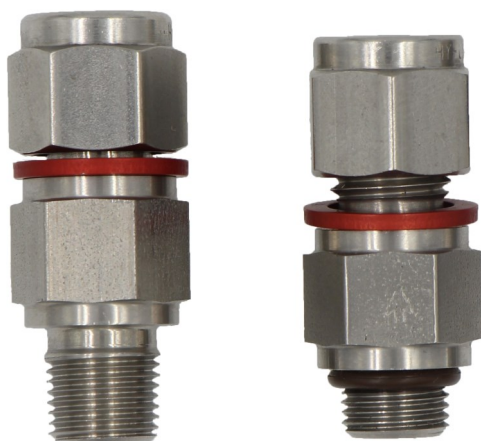
DOUBLE BALL CHECK VALVE WITH HIGH OUTPUT ADAPTER INSTALLED

ORDERING INFORMATION & PART NUMBERS

CHECK VALVES—OCV SERIES

OUTLET TYPE WITH SINGLE BALL

STANDARD PACK: 5 EACH					
CHECK VALVE DESCRIPTION			PART NUMBER		
INLET SIZE	OUTLET SIZE	BALL OPEN PSI	303 STAINLESS	316 STAINLESS	ADAPTER REQUIREMENTS
1/8" NPTF (M)	1/4" TUBE	35	OCV-303-125-NPTF	OCV-316-125-NPTF	INTEGRAL TUBE FITTING
1/8" ORS (M)	1/4" TUBE	35	OCV-303-125-ORS	OCV-316-125-ORS	INTEGRAL TUBE FITTING
1/8" BSPP (M)	6MM TUBE	35	OCV-303-125-BSPP	OCV-316-125-BSPP	INTEGRAL TUBE FITTING
M10 ISO (M)	6MM TUBE	35	OCV-303-125-ISO	OCV-316-125-ISO	INTEGRAL TUBE FITTING
7/16"-20 SAE (M)	1/4" TUBE	35	OCV-303-125-SAE	OCV-316-125-SAE	INTEGRAL TUBE FITTING

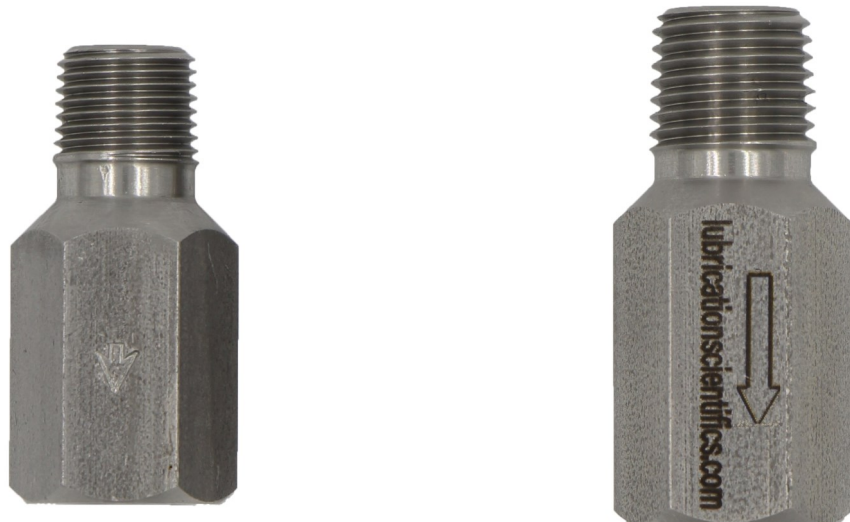


ORDERING INFORMATION & PART NUMBERS

CHECK VALVES—OCV SERIES

OUTLET TYPE WITH SINGLE BALL CHECK VALVES

STANDARD PACK: 5 EACH					
CHECK VALVE DESCRIPTION			PART NUMBER		
INLET SIZE	OUTLET SIZE	BALL OPEN PSI	303 STAINLESS	316 STAINLESS	ADAPTER REQUIREMENTS
1/8" NPTF (F)	1/8" NPSF (M)	35	OCV-303-125R-35	OCV-316-125R-35	TUBE FITTING
1/8" NPTF (F)	1/8" NPSF (M)	60	OCV-303-125R-60	OCV-316-125R-60	TUBE FITTING
1/8" NPTF (F)	1/8" NPSF (M)	250	OCV-303-125R-250	OCV-316-125R-250	TUBE FITTING
1/4" NPTF (M)	1/4" NPSF (F)	35	OCV-303-250R-35	OCV-316-250R-35	TUBE FITTING



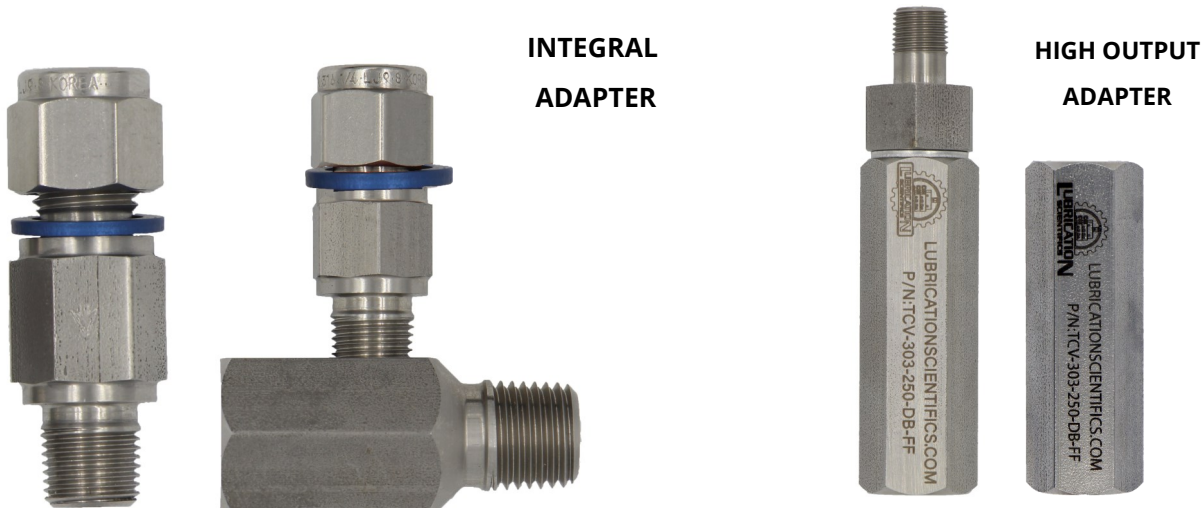
ORDERING INFORMATION & PART NUMBERS

CHECK VALVES—TCV SERIES

TERMINATING (INJECTION) DOUBLE BALL CHECK VALVES

STANDARD PACK: 5 EACH					
CHECK VALVE DESCRIPTION			PART NUMBER		
INLET SIZE	OUTLET SIZE	BALL OPEN PSI	303 STAINLESS	316 STAINLESS	ADAPTER REQUIREMENTS
1/4" TUBE	1/8" NPTF (M)	150	TCV-303-125-NPTF	TCV-316-125-NPTF	INTEGRAL TUBE FITTING
6MM TUBE	1/8" BSPP (M)	150	TCV-303-125-BSPP	TCV-316-125-BSPP	INTEGRAL TUBE FITTING
6MM TUBE	M10 (M)	150	TCV-303-125-ISO	TCV-316-125-ISO	INTEGRAL TUBE FITTING
1/4" TUBE	7/16"-20 SAE	150	TCV-303-125-SAE	TCV-316-125-SAE	INTEGRAL TUBE FITTING
1/4" NPSF (F)**	1/4" NPSF (F)	150	TCV-303-250-DB-FF	TCV-316-250-DB-FF	INLET & OUTLET
1/4" NPSF (F)**	1/8" NPTF (M)	150	TCV-303-250-DB-FM2	TCV-316-250-DB-FM2	INLET
1/4" NPSF (F)**	1/4" NPTF (M)	150	TCV-303-250-DB-FM4	TCV-316-250-DB-FM4	INLET

** HIGH OUTPUT



ORDERING INFORMATION & PART NUMBERS

CHECK VALVES—TCV SERIES

TERMINATING (INJECTION) SINGLE BALL CHECK VALVES

STANDARD PACK: 5 EACH					
CHECK VALVE DESCRIPTION			PART NUMBER		
INLET SIZE	OUTLET SIZE	BALL OPEN PSI	303 STAINLESS	316 STAINLESS	ADAPTER REQUIREMENTS
1/8" NPSF (F)	1/8" NPTF (M)	35	TCV-303-125-35	TCV-316-125-35	TUBE FITTING
1/8" NPSF (F)	1/8" NPTF (M)	60	TCV-303-125-60	TCV-316-125-60	TUBE FITTING
1/8" NPSF (F)	1/8" NPTF (M)	250	TCV-303-125-250	TCV-316-125-250	TUBE FITTING
1/4"NPTF (F)	1/4" NPSF (M)	35	TCV-303-250-35	TCV-316-250-35	TUBE FITTING



ORDERING INFORMATION & PART NUMBERS

CHECK VALVE ADAPTERS, TERMINATING (INJECTION)

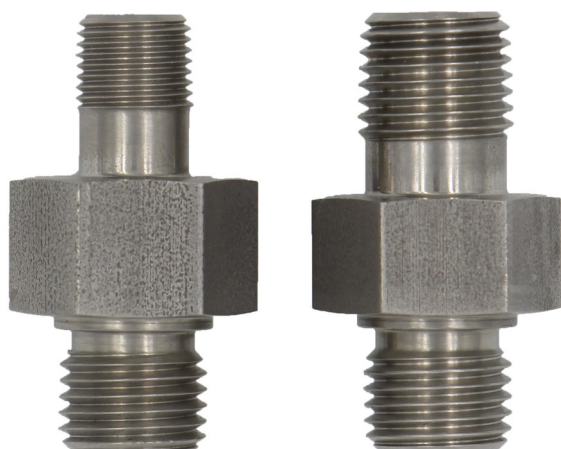
ADAPTS CHECK VALVES—FOR USE IN EITHER 1/8" NPTF OR 1/4" NPTF INJECTION PORTS

FOR HIGH OUTPUT: INSTALL SELECTED ADAPTER INTO OUTPUT END OF CHECK VALVE

FOR INTEGRAL FITTING: INSTALL CHECK VALVE INTO SIDE OF SELECTED ADAPTER

STANDARD PACK: 5 EACH				
CHECK VALVE DESCRIPTION			PART NUMBER	
INLET SIZE	OUTLET SIZE	USE WITH	303 STAINLESS	316 STAINLESS
1/4" NPSF (F)	1/8" NPTF (M)	HIGH OUTPUT DOUBLE BALL CHECK	DBFFADP-2-303	DBFFADP-2-316
1/4" NPSF (F)	1/4" NPTF (M)	HIGH OUTPUT DOUBLE BALL CHECK	DBFFADP-4-303	DBFFADP-4-316
1/8" NPSF (F)	1/8" NPTF (M)	1/8" NPTF TERMINATING CHECK	TCVADP-2-303	TCVADP-2-316
1/8" NPSF (F)	1/4" NPTF (M)	1/8" NPTF TERMINATING CHECK	TCVADP-4-303	TCVADP-4-316

HIGH OUTPUT ADAPTERS



INTEGRAL ADAPTERS



ORDERING INFORMATION & PART NUMBERS

TERMINATING ORIFICE FITTINGS

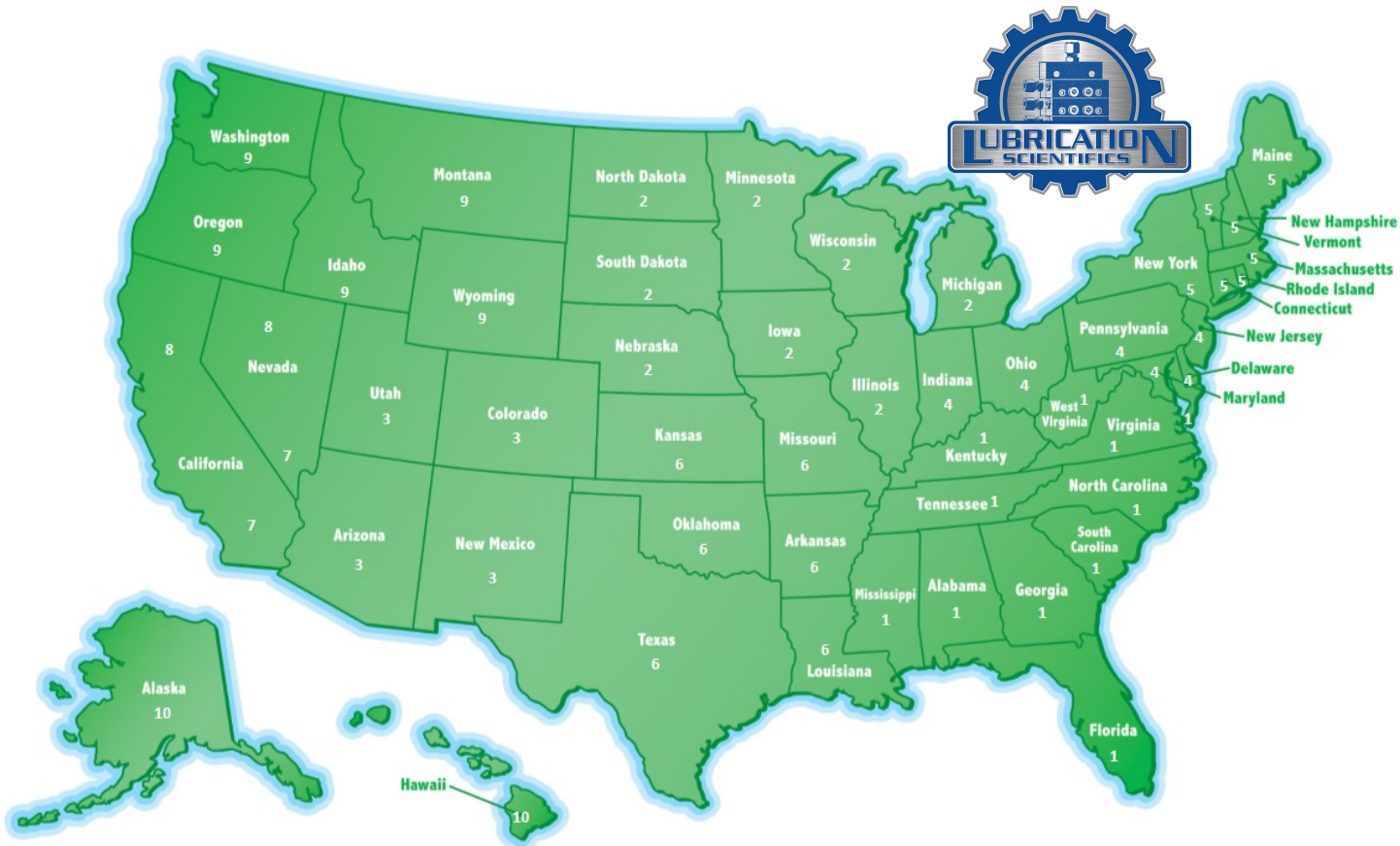
STANDARD PACK: 5 EACH			
FITTING DESCRIPTION			PART NUMBER
INLET SIZE	OUTLET SIZE	ORIFICE SIZE (INCHES)	303 STAINLESS
1/8" NPSF (F)	1/8" NPTF (M)	.0110	TO-303-125-011
1/8" NPSF (F)	1/8" NPTF (M)	.0130	TO-303-125-013
1/8" NPSF (F)	1/8" NPTF (M)	.0145	TO-303-125-015
1/8" NPSF (F)	1/8" NPTF (M)	.0177	TO-303-125-017
1/8" NPSF (F)	1/8" NPTF (M)	.0197	TO-303-125-019
1/8" NPSF (F)	1/8" NPTF (M)	.0210	TO-303-125-021
1/8" NPSF (F)	1/8" NPTF (M)	.0236	TO-303-125-023
1/8" NPSF (F)	1/8" NPTF (M)	.0250	TO-303-125-025



NOTES

CONTACT US

IN THE USA, FIND YOUR STATE IN THE MAP BELOW, LOOK FOR THE REGION ID NUMBER AND FIND THAT NUMBER IN THE CONTACT INFORMATION CHART.



CONTACT INFORMATION CHART

1	Call Factory Direct - 877-452-0157
2	David Donahue Cell: 414-507-9513 Email: d.donahue@lubricationscientifics.com
3	Bernie Sauve + El Paso Texas Cell: 210-702-9930 Email: bernie@lubricationscientifics.com
4	Andy Kromer Cell: 440-364-4721 Email: aklub@lubricationscientifics.com
5	Call Factory Direct - 877-452-0157
6	Cory Walker Cell: 832-585-7065 Email: c.walker@lubricationscientifics.com

7	Richard Hanley - California - Santa Barbara, Ventura, Los Angeles, Orange, San Bernardino, Riverside, San Diego and Imperial Counties. Nevada - Clark County. Cell: 714-625-5539
8	California - All Counties not covered by Richard. Nevada - All Counties except Clark County. Call Factory Direct - 877-452-0157
9	Call Factory Direct - 877-452-0157
10	Call Factory Direct - 877-452-0157
Outside of the United States	Call Factory Direct - 877-452-0157

Customer Service (877-452-0157)

- ◆ Order status & order entry
- ◆ Pricing inquiries
- ◆ Part number look-ups
- ◆ Product availability information
- ◆ Shipment assistance
- ◆ All other general inquires

www.lubricationscientifics.com

- ◆ Product information, specifications, literature
- ◆ Locate sales reps and distributors
- ◆ Operator & Repair manuals
- ◆ Distributer Information
- ◆ Place orders and check current pricing
- ◆ Product Pricing



LUBRICATION SCIENTIFICS, LLC

17651 ARMSTRONG AVE.

IRVINE, CA 92614

UNITED STATES OF AMERICA

TOLL FREE TEL: (877) 452-0157, LOCAL TEL: (714) 557-0664, FAX: (714) 546-4564

WWW.LUBRICATIONSCIENTIFICS.COM