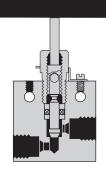
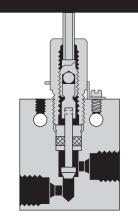
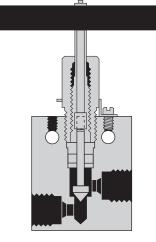
High Pressure Equipment



LF4 $(1/_{4})$ and LF6 $(3/_{8})$







LF12 (3/4") and LF16 (1")*

20,000 psi Medium Pressure Valves

Medium Pressure (coned & threaded) type connections for $\frac{1}{4}$, $\frac{3}{8}$, $\frac{9}{16}$, $\frac{3}{4}$, and 1" O.D. tubing.

Non-rotating tip stems are standard for on-off service and insure long life on valve seats. Regulating tip stems are available for all valves at no additional cost, add - REG to part number.

Glands and collars for tubing are supplied with each valve unless otherwise requested (glands and collars shown on pages 3.4 and 3.A).

Materials include high tensile type 316 stainless steel bodies and hardened 17-4PH stainless steel lower section stems.

Packing is Teflon (450°F) standard with optional Viton (350°F), BUNA-N (200°F) and Grafoil (800°F) available at no additional cost.

Air operators for remote control operation are available for all valves. (Select required valve and add "HIPCO". Refer to section 7.0 for additional data).

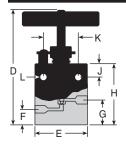
High temperatures can be accommodated by using extended stuffing boxes (see page 6.4).

Valve Features

- Non-rotating stem tips
- Packing below stem threads
- Type 316 ss high tensile bodies
- Positive gland lock device
- No stem adjustment needed
- Black T-handles or choice of 4 colors
- Tube sizes 1/4" through 1"

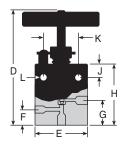
*Note: 10,000 psi large orifice is offered in $\frac{3}{4}$ and 1" size.

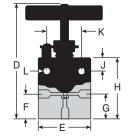
20,000 psi Medium Pressure Valves

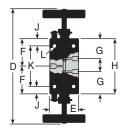


Two Way Straight Valves

						_							
Tubing	Catalog No.	psi	Connection	Orifice	D	Е	F	G	Н	J	К	Г	Thickness
¹ / ₄ " O.D.	20-11LF4	20,000	LF4		4 ³ / ₈ "	2″	³ /8 ["]	¹³ / ₁₆ ″	2″	³ /8 ["]	1 ¹ / ₄ "	⁷ / ₃₂ "	³ /4 ["]
³ / ₈ " O.D.	20-11LF6	20,000	LF6	¹³ / ₆₄ "	4 ³ / ₈ "	2″	³ / ₈ ″	¹³ / ₁₆ ″	2″	³ / ₈ ″	1 ¹ / ₄ "	⁷ / ₃₂ "	3/4"
⁹ / ₁₆ " O.D.	20-11LF9	20,000	LF9	⁵ / ₁₆ "	6 ¹ / ₈ "	2 ¹ / ₂ "	¹ / ₂ ″	1 ¹ / ₈ "	27/8"	¹ / ₂ "	1 ³ / ₈ "	¹¹ / ₃₂ "	1 "
³ / ₄ " O.D.	20-11LF12	20,000	LF12	⁷ / ₁₆ "	7″	3″	³ / ₄ ″	1 ¹ / ₂ "	3 ³ / ₄ "	⁵ /8″	1 ³ / ₄ "	⁷ / ₁₆ "	1 ³ / ₈ "
³ / ₄ " O.D.	10-11LF12	10,000	LF12	³³ / ₆₄ "	7″	3″	³ / ₄ ″	1 ¹ / ₂ "	3 ³ / ₄ "	⁵ / ₈ ″	1 ³ / ₄ "	⁷ / ₁₆ ″	1 ³ / ₈ "
1 " O.D.	20-11LF16	20,000	LF16	⁹ / ₁₆ "	8 ²⁷ / ₆₄ "	4 ¹ / ₈ "	⁷ /8	1 ¹³ / ₁₆ "	4 ⁵ / ₈ "	1 ¹ / ₈ "	2 ¹ / ₂ "	⁹ / ₁₆ ″	1 ³ / ₄ "
1 " O.D.	10-11LF16	10,000	LF16	¹¹ / ₁₆ ″	8 ²⁷ / ₆₄ "	4 ¹ / ₈ "	⁷ /8 ["]	1 ¹³ / ₁₆ "	4 ⁵ / ₈ "	1 ¹ / ₈ "	2 ¹ / ₂ "	⁹ / ₁₆ ″	1 ³ / ₄ "









Tubing	Catalog No.	psi	Connection	Orifice	D	Е	F	G	н	J	ĸ	니	Thickness
¹ / ₄ " O.D.	20-12LF4	20,000	LF4	1/8"	4 ¹³ / ₁₆ "	2″	—	1 ¹ / ₄ "	27/16	³ / ₈ "	1 ¹ / ₄ "	⁷ / ₃₂ ″	3/4"
³ / ₈ " O.D.	20-12LF6	20,000	LF6	¹³ / ₆₄ "	$4^{13}/_{16}$ "	2″	-	1 ¹ / ₄ "	27/16	³ /8″	1 ¹ / ₄ "	⁷ / ₃₂ ″	³ / ₄ "
⁹ / ₁₆ " O.D.	20-12LF9	20,000	LF9	⁵ / ₁₆ "	6 ⁵ / ₈ "	2 ¹ / ₂ "	-	1 ⁵ /8"	3 ³ / ₈ "	¹ / ₂ "	1 ³ / ₈ "	¹¹ / ₃₂ "	1 "
³ / ₄ " O.D.	20-12LF12	20,000	LF12	⁷ / ₁₆ "	7 ¹ / ₂ "	3″	-	2″	4 ¹ / ₄ "	⁵ /8	1 ³ / ₄ "	⁷ / ₁₆ ″	1 ³ / ₈ "
³ / ₄ " O.D.	10-12LF12	10,000	LF12	³³ / ₆₄ "	7 ¹ / ₂ "	3″	—	2″	4 ¹ / ₄ "	⁵ /8	1 ³ / ₄ "	⁷ / ₁₆ "	1 ³ / ₈ "
1″ O.D.	20-12LF16	20,000	LF16	⁹ / ₁₆ ″	9 ³ / ₈ "	4 ¹ / ₈ "		2º/16"	57/16"	1 ¹ / ₈ "	2 ¹ / ₂ "	⁹ / ₁₆ ″	1 ³ / ₄ "
1″ O.D.	10-12LF16	10,000	LF16	¹¹ / ₁₆ "	9 ³ /8"	4 ¹ / ₈ "	—	2 ⁹ /16"	5 ⁷ /16"	1 ¹ / ₈ "	2 ¹ / ₂ "	⁹ / ₁₆ ″	1 ³ / ₄ "
1 ″ O.D.	10-12LF16	10,000	LF16	¹¹ / ₁₆ "	9 ³ / ₈ "	4 ¹ / ₈ "	-	2 ⁹ / ₁₆ "	5 ⁷ / ₁₆ "	1 ¹ / ₈ "	2 ¹ / ₂ "	⁹ / ₁₆ ″	1 ³ / ₄ "

Three Way Valves / Two Pressure Connections

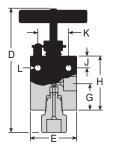
Tubing	Catalog No.	psi	Connection	Orifice	D	Е	F	G	Н	J	К	L	Thickness
¹ / ₄ " O.D.	20-13LF4	20,000	LF4	1/8 "	5″	2″	1″	1 ⁷ / ₁₆ "	2 ⁵ / ₈ "	³ /8"	1 ¹ / ₄ "	⁷ / ₃₂ ″	³ / ₄ "
³/ ₈ ″ O.D.	20-13LF6	20,000	LF6	¹³ / ₆₄ "	5″	2″	1″	1 ⁷ /16	2 ⁵ / ₈ "	³ / ₈ ″	1 ¹ / ₄ "	⁷ / ₃₂ ″	3/4"
⁹ ∕₁₀″ O.D.	20-13LF9	20,000	LF9	⁵ / ₁₆ "	6 ⁷ /8"	2 ¹ / ₂ "	1 ¹ / ₄ "	1 ⁷ /8"	3 ⁵ / ₈ "	1/2"	1 ³ / ₈ "	¹¹ / ₃₂ "	1"
³ / ₄ " O.D.	20-13LF12	20,000	LF12	⁷ / ₁₆ ″	77/8"	3″	25/8"	2 ³ / ₈ "	4 ⁵ / ₈ "	⁵ /8″	1 ³ / ₄ "	⁷ / ₁₆ ″	1 ³ / ₈ "
³ / ₄ " O.D.	10-13LF12	10,000	LF12	³³ / ₆₄ "	7 ⁷ /8"	3″	25/8"	2 ³ / ₈ "	4 ⁵ / ₈ "	⁵ /8″	1 ³ / ₄ "	⁷ / ₁₆ ″	1 ³ /8″
1″ O.D.	20-13LF16	20,000	LF16	⁹ / ₁₆ ″	9 ³ / ₄ "	4 ¹ / ₈ "	2 ¹ / ₈ "	$3^{1}/_{16}$ "	5 ⁷ /8"	1 ¹ / ₈ "	2 ¹ / ₂ "	⁹ / ₁₆ ″	1 ³ / ₄ "
1 " O.D.	10-13LF16	10,000	LF16	¹¹ / ₁₆ "	9 ³ / ₄ "	4 ¹ / ₈ "	2 ¹ / ₈ "	3 ¹ / ₁₆ "	5 ⁷ /8"	1 ¹ / ₈ "	2 ¹ / ₂ "	⁹ / ₁₆ ″	1 ³ / ₄ "

Three Way Valves/One Pressure Connection

Tubing	Catalog No.	psi	Connection	Orifice	D	Е	F	G	н	J	Κ	L	Thickness
¹ / ₄ " O.D.	20-14LF4	20,000	LF4	¹ / ₈ "	4 ¹³ / ₁₆ "	2″	1 ¹ / ₄ "	1 ¹ / ₄ "	27/16	³ / ₈ "	1 ¹ / ₄ "	⁷ / ₃₂ "	³ / ₄ "
³ / ₈ " O.D.	20-14LF6	20,000	LF6	¹³ / ₆₄ "	$4^{13}/_{16}$ "	2″	1 ¹ / ₄ "	1 ¹ / ₄ "	27/16	³ / ₈ "	1 ¹ / ₄ "	⁷ / ₃₂ ″	3/4"
⁹ / ₁₆ ″ O.D.	20-14LF9	20,000	LF9	⁵ / ₁₆ "	6 ⁵ / ₈ "	2 ¹ / ₂ "	1 ⁵ /8"	1 ⁵ /8"	3 ³ / ₈ "	¹ / ₂ "	1 ³ /8"	¹¹ / ₃₂ "	1"
³ / ₄ " O.D.	20-14LF12	20,000	LF12	⁷ / ₁₆ "	7 ¹ / ₂ "	3″	2″	2″	4 ¹ / ₄ "	⁵ / ₈ ″	1 ³ / ₄ "	⁷ / ₁₆ ″	1 ³ / ₈ "
³ / ₄ " O.D.	10-14LF12	10,000	LF12	³³ / ₆₄ "	7 ¹ / ₂ "	3″	2″	2″	4 ¹ / ₄ "	⁵ /8 ["]	1 ³ / ₄ "	⁷ / ₁₆ ″	1 ³ /8″
1 " O.D.	20-14LF16	20,000	LF16	⁹ / ₁₆ "	9 ³ / ₈ "	4 ¹ / ₈ "	2 ⁵ / ₈ "	2 ⁵ / ₈ "	5 ⁷ /16"	1 ¹ / ₈ "	2 ¹ / ₂ "	⁹ / ₁₆ ″	1 ³ / ₄ "
1 " O.D.	10-14LF16	10,000	LF16	¹¹ / ₁₆ "	9 ³ / ₈ "	4 ¹ / ₈ "	25/8"	2 ⁵ / ₈ "	5 ⁷ /16	1 ¹ / ₈ "	2 ¹ / ₂ "	⁹ / ₁₆ ″	1 ³ / ₄ "

Three Way/Two Stem Connection Valves

Tubing	Catalog No.	psi	Connection	Orifice	D	Е	F	G	н	J	Κ	L	Thickness
¹ / ₄ " O.D.	20-15LF4	20,000	LF4		5 ³ / ₄ "		1 ¹¹ / ₁₆ "	1 ³ / ₁₆ "	3 ³ / ₈ "	³ /8 ["]	1 ¹ / ₄ "	⁷ / ₃₂ "	³ /4 ["]
³/8″ O.D.	20-15LF6	20,000	LF6	¹³ / ₆₄ "	5 ³ / ₄ "	2″	1 ¹¹ / ₁₆ "	1 ³ / ₁₆ "	3 ³ / ₈ "	³ / ₈ ″	1 ¹ / ₄ "	⁷ / ₃₂ "	3/4"
⁹ / ₁₆ " O.D.	20-15LF9	20,000	LF9	⁵ / ₁₆ "	8 ³ / ₈ "	2 ¹ / ₂ "	2 ⁹ / ₁₆ "	1 ³ / ₄ "	5 ¹ / ₈ "	¹ / ₂ "	1 ³ / ₈ "	¹¹ / ₃₂ "	1 "
³ / ₄ " O.D.	20-15LF12	20,000	LF12	⁷ / ₁₆ "	9 ³ / ₄ "	3″	3 ¹ / ₄ "	2 ¹ / ₄ "	6 ¹ / ₂ "	⁵ / ₈ ″	1 ³ / ₄ "	⁷ / ₁₆ "	1 ³ / ₈ "
³ / ₄ " O.D.	10-15LF12	10,000	LF12	³³ / ₆₄ "	9 ³ / ₄ "	3″	3 ¹ / ₄ "	2 ¹ / ₄ "	6 ¹ / ₂ "	⁵ / ₈ ″	1 ³ / ₄ "	⁷ / ₁₆ "	1 ³ / ₈ "
1 ″ O.D.	20-15LF16	20,000	LF16	⁹ / ₁₆ "	12 ³ / ₁₆ "	4 ¹ / ₈ "	4 ¹ / ₈ "	2 ¹³ / ₁₆ "	8 ¹ / ₄ "	1 ¹ / ₈ "	2 ¹ / ₂ "	⁹ / ₁₆ "	1 ³ / ₄ "
1″ O.D.	10-15LF16	10,000	LF16	¹¹ / ₁₆ "	12 ³ / ₁₆ "	4 ¹ / ₈ "	4 ¹ / ₈ "	2 ¹³ / ₁₆ "	8 ¹ / ₄ "	1 ¹ / ₈ "	2 ¹ / ₂ "	⁹ / ₁₆ "	1 ³ / ₄ "



Replaceable Seat Valves

Tubing	Catalog No.	psi	Connection	Orifice	D	Е	F	G	н	J	к	L	Thickness
¹ / ₄ " O.D.	20-12LF4-R	20,000	LF4	¹ / ₈ ″	5 ⁵ /8"	2″	—	1 ¹ / ₄ "	27/16	³ /8 ["]	1 ¹ / ₄ "	⁷ / ₃₂ "	3/4"
³ / ₈ " O.D.	20-12LF6-R	20,000	LF6	¹³ / ₆₄ "	5 ⁵ /8"	2″	-	1 ¹ / ₄ "	27/16	³ / ₈ ″	1 ¹ / ₄ "	⁷ / ₃₂ "	3/4"
⁹ / ₁₆ " O.D.	20-12LF9-R	20,000	LF9	⁵ / ₁₆ "	8″	2 ¹ / ₂ "	-	1 ⁵ /8"	3 ³ / ₈ "	1/2"	1 ³ / ₈ "	¹¹ / ₃₂ "	1"
³ / ₄ " O.D.	20-12LF12-R	20,000	LF12	⁷ / ₁₆ "	8 ⁷ / ₈ "	3″	-	2″	4 ¹ / ₄ "	⁵ /8″	1 ³ / ₄ "	⁷ / ₁₆ "	1 ³ / ₈ "
³ / ₄ " O.D.	10-12LF12-R	10,000	LF12	³³ / ₆₄ "	87/8"	3″	—	2″	4 ¹ / ₄ "	⁵ /8 ["]	1 ³ / ₄ "	⁷ / ₁₆ "	1³/8 ″
1 " O.D.	20-12LF16-R	20,000	LF16	⁹ / ₁₆ "	11 ¹ / ₆ "	4 ¹ / ₆ "	-	2º/16"	5 ⁷ /16	1 ¹ / ₈ "	2 ¹ / ₂ "	⁹ / ₁₆ ″	1 ³ / ₄ "
1 ″ O.D.	10-12LF16-R	10,000	LF16	¹¹ / ₁₆ "	11 ¹ / ₆ "	4 ¹ / ₈ "	-	2 ⁹ /16"	5 ⁷ /16"	1 ¹ / ₈ "	2 ¹ / ₂ "	⁹ / ₁₆ "	1 ³ / ₄ "

3.3

R3 12/00

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