



LIV SLIMLINE MONOFLANGE VALVES



Principle

LIV Slimline Monoflange valve solutions for single block, single block & bleed, double block & bleed and double block configurations. Monoflange solutions offer the greatest cost, weight, and space saving with isolation and vent valves incorporated into the process interface with simplified installation. Monoflange valves are offered in flange to thread configuration. Flange to flange configuration on request.

Features

Reduced potential leak points compared to traditional to 3 valve combination, lower weight, reduced loading and vibration stresses, and space saving. The primary shut off valves can be supplied as process valves with outside screw and yoke (OS&Y). The operation is with handwheel or T-bar.

Construction

- The valve body is machined from a round bar stock material.
- The raw material of the valve can be supplied according to NORSOK M 630 or to customer's specific requirements.
- Inlet is a flanged connection, outlet ½" NPT.
- The valve spindle thread is external to stuffing box.
- Valve with fire safe requirement is supplied with graphite packings.
- The valve has back seating and non-rotating valve tip.
- The standard bore size is 5 mm. The large bore version has 10 mm bore. See data sheet lv-0-05-002.
- The dust covers are coloured for application indication (isolate, vent)
- The valves are designed for PED 2014/68/EU.

Size	1⁄2 - 3"
Pressure rating	150 lbs - 2500 lbs
Flange facing	RF or RTJ to ANSI B 16.5
Material	AISI 316, A350LF2, 22Cr Duplex, 25Cr Duplex, 6Mo, Titanium, Monel 400, Hastelloy C, Inconel 625 and 825
Packing	PTFE, Graphite.
Temperature	÷100 to +260 °C PTFE ÷50 to +500 °C Graphite
Operation	OS&Y, handwheel or T-bar, T-bar or Anti tamper.
Coating	Standard offshore, to customer's spec., or none

Technical Data

Testing and Documentation

- Material certificate to EN 10204-3.1
- Certificate of compliance to NACE MR 01-75 or EN 15156
- Optional: cleaned for oxygen and hydrogen
- PMI test
- Pressure test certificate
- Fire safe tested acc. to EN 10497-2010
- Penetrant test on valve body to ASME BPV, ISO 3452-1 2021
- Fugitive emission to ISO 15848-1 2017









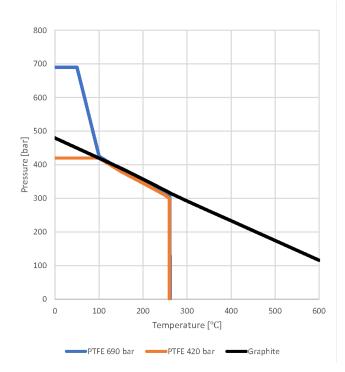
lv-0-05-001-4e

Accessories

- 1/4" & 1/2" NPT plugs (for valves with bleed connection) Locking device for valve operation (only valves with handwheel) •

(

Pressure and Temperature Rating



HOW TO ORDER

0.0

Choose a code for each of the configuration steps. For special orders, please reach out to our sales team.

1 VALVE TYPE		2 v	2 VALVE SIZE			3 PRESSURE RATING			4 FLANGE FACING		
SL1	Single block	3		1/2″	C)1	150 lbs		F	Raised fa	ce
SL2	Block and bleed	4		3⁄4″	C)3	300 lbs		J	Ring type j	oint
SL3	Double B&B	5		1″	C	06	600 lbs				
SL4	Double block	6		11⁄2″	1	5	1500 lbs				
		7		2″	2	25	2500 lbs				
		8		3″							
5 va	LVE MATERIAL										
	Body material		Trim r	material							
01	A350 LF2		AISI 3	316							
02	A479 316		AISI 3	316							
03	A182 316	AISI 316									
04	A182 22Cr. Duple:	22Cr. Duplex									
06	A182 25Cr. Duple:	25Cr. Duplex									
08	A182 6Mo	бМо									
10	Titanium	ium									
11	Monel 400		Mone	el 400							
12	Hastelloy C-276										
13	Inconel 625		Incor	nel 625							
14											
6 вс	ONNET TYPES										
1	OS&Y 2		Needle 3		3	Anti-tamper		4	Anti-tamper lockable		
7 во	NNET COMBINATIONS										
	SL1			SL2			SL3			SL4	
		Vent	Primary	SL2 Secondary	Vent	Primary	SL3 Secondary	Vent	Primary	SL4 Secondary	Ver
01	SL1	Vent -	Primary 1		Vent 2	Primary 1		Vent 2	Primary 1		Ver -
01 02	SL1 Primary Secondary	Vent - -	-			-	Secondary		-	Secondary	Ver -
	SL1 Primary Secondary 1 -	Vent - - -	1		2	1	Secondary 2	2	1	Secondary 2	Ver - -
02	SL1 Primary Secondary 1 - 2 -	Vent - - -	1		2 3	1	Secondary 2 2	2 3	1	Secondary 2 3	-
02 03	SL1 Primary Secondary 1 - 2 - 3 -	Vent - - - -	1 1 1		2 3 4	1 1 1	Secondary 2 2 2	2 3 4	1 1 1	Secondary 2 3 4	-
02 03 04	SL1 Primary Secondary 1 - 2 - 3 -	Vent - - - - -	1 1 1 2		2 3 4 2	1 1 1 1	Secondary 2 2 2 3	2 3 4 3	1 1 1 2	Secondary 2 3 4 2	-
02 03 04 05	SL1 Primary Secondary 1 - 2 - 3 -	Vent - - - - - -	1 1 1 2 2		2 3 4 2 3	1 1 1 1 1 1	Secondary 2 2 3 3	2 3 4 3 4	1 1 1 2 2	Secondary 2 3 4 2 3	- - -
02 03 04 05 06	SL1 Primary Secondary 1 - 2 - 3 -	Vent - - - - - - - -	1 1 1 2 2 2		2 3 4 2 3 4	1 1 1 1 1 1 2	Secondary 2 2 3 3 2 2	2 3 4 3 4 2	1 1 1 2 2 2	Secondary 2 3 4 2 3 4	-
02 03 04 05 06 07 08	SL1 Primary Secondary 1 - 2 - 3 -		1 1 2 2 2 3	Secondary - - - - - - - - - - - - - -	2 3 4 2 3 4 2	1 1 1 1 1 2 2 2 2	Secondary 2 2 3 3 2 2 2 2	2 3 4 3 4 2 3 4	1 1 1 2 2 2 3 3 3	Secondary 2 3 4 2 3 4 3 4 3 2	- - - - -
02 03 04 05 06 07 08 8 os	SL1 Primary Secondary 1 - 2 - 3 - 4 - - - - - - - - -		1 1 2 2 2 3 3 3	Secondary - - - - - - - - - - - - - -	2 3 4 2 3 4 2 3	1 1 1 1 1 2 2 2 2	Secondary 2 2 3 3 2 2 2 2 2	2 3 4 3 4 2 3 4 TION	1 1 1 2 2 2 3 3 3	Secondary 2 3 4 2 3 4 3 4 3	- - - - - - - -
02 03 04 05 06 07 08 8 os	SL1 Primary Secondary 1 - 2 - 3 - 4	-	1 1 2 2 3 3 9 SEALS	Secondary - - - - - - - - - - - -	2 3 4 2 3 4 2 3 1 1 id	1 1 1 1 1 2 2 2 10 BLE	Secondary 2 2 2 3 3 3 2 2 2 2 ED CONNEC	2 3 4 3 4 2 3 4 2 3 4 TION	1 1 2 2 3 3 11 con	Secondary 2 3 4 2 3 4 3 4 3 2 NECTION O	- - - - - - JTLE
02 03 04 05 06 07 08 8 os HH	SL1 Primary Secondary 1 - 2 - 3 - 4	-	1 1 2 2 3 3 9 SEALS T	Secondary	2 3 4 2 3 4 2 3 1 1 id	1 1 1 1 1 2 2 2 10 BLE 14	Secondary 2 2 2 3 3 2 2 2 ED CONNEC ¼″ NPT	2 3 4 3 4 2 3 4 2 3 4 TION	1 1 2 2 3 3 11 CON	Secondary 2 3 4 2 3 4 3 4 3 2 INECTION OU ½″ NPT 1	- - - - - - -
02 03 04 05 06 07 08 8 os HH HL	SL1 Primary Secondary 1 - 2 - 3 - 4	-	1 1 2 2 3 3 9 SEALS T	Secondary	2 3 4 2 3 4 2 3 1 1 id	1 1 1 1 1 2 2 2 10 BLE 14	Secondary 2 2 2 3 3 2 2 2 ED CONNEC ¼″ NPT	2 3 4 3 4 2 3 4 2 3 4 TION	1 1 2 2 3 3 11 CON 1 2	Secondary 2 3 4 2 3 4 3 2 INECTION OU ½" NPT I ¾" NPT I	- - - - - - - - - - - - - - - - - - -
02 03 04 05 06 07 08 8 05 HH HL TB	SL1 Primary Secondary 1 - 2 - 3 - 4 - - - - - - - - - - - - - -	-	1 1 2 2 3 3 9 SEALS T	Secondary	2 3 4 2 3 4 2 3 1 1 id	1 1 1 1 1 2 2 2 10 BLE 14	Secondary 2 2 2 3 3 2 2 2 ED CONNEC ¼″ NPT	2 3 4 3 4 2 3 4 2 3 4 TION	1 1 2 2 3 3 11 con 1 2 3	Secondary 2 3 4 2 3 4 3 4 3 2 INECTION OU ½" NPT I ¾" NPT I ¾" NPT I ¾" SPT	- - - - - - -
02 03 04 05 06 07 08 8 05 HH HL TB	SL1 Primary Secondary 1 - 2 - 3 - 4 - - - - - - - - - - - - - -	-	1 1 2 2 3 3 9 SEALS T	Secondary	2 3 4 2 3 4 2 3 1 1 id	1 1 1 1 1 2 2 2 10 BLE 14	Secondary 2 2 2 3 3 2 2 2 ED CONNEC ¼″ NPT	2 3 4 3 4 2 3 4 2 3 4 TION	1 1 2 2 3 3 11 con 1 2 3 4	Secondary 2 3 4 2 3 4 3 4 3 2 INECTION OU ½" NPT I ½" NPT I ½" SSPT ¾" BSPT	- - - - - - - - - - - - - - - - - - -

Example: SL3503F-02-02-HLGTT121

Slim line valve double block and bleed, 1" 300lbs Raised face. Body material A182 316 trim material AISI 316. Primary isolate = OS&Y - Secondary isolate = Needle - Vent=Anti-tamper

OS&Y operation is a lockable handwheel, seals is Graphite/PTFE/PTFE, ½" NPT int. connection, ½" NPT int. outlet connection.

lv-0-05-001-4e