



LIV SLIMLINE MONOFLANGE VALVES

SERIES SH Large Bore

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 bore size is 10 mm.
- The dust covers are coloured for application indication (isolate, vent).
- The valves are designed for PED 2014/68/EU.

Technical Data

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.
Valve tip	Hardened
Coating	Standard offshore, to customer's spec., or none
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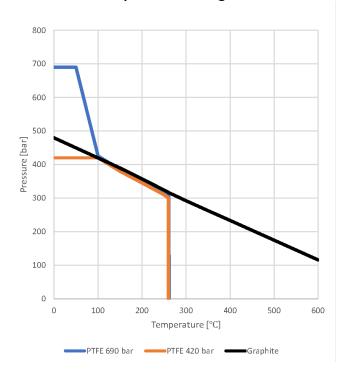
Testing and Documentation

- Material certificate to EN 10204-3.1
- Certificate of compliance to NACE MR 01-75 or EN 15156
- 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

Accessories

- ¼" NPT plugs (for valves with bleed connection)
- Locking device for valve operation (only valves with handwheel)

Pressure and Temperature Rating



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HOW TO ORDER

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			
SH1	Singl	e block	3		1/2"	C)1	150 lbs		F	Raised fa	се
SH2	Block a	nd bleed	4	4 3/4")3	300 lbs		J	Ring type j	oint
SH3	Doub	le B&B	5	5 1"		C	06	600 lbs				
SH4	Doub	le block	6		1½"	1	5	1500 lbs				
			7		2"	2	25	2500 lbs				
			8		3"							
5 м/	ATERIAL											
	Body ma	aterial		Trim r	material							
01	A350 L	F2		AISI 3	316							
02	A479 3	16			AISI 316							
03	A182 3	. 316 A			AISI 316							
04				22Cr	. Duplex							
06	·			25Cr.	25Cr. Duplex							
08	A182 6Mo			6Мо								
10	Titanium Titanium			ium								
11	Monel 4	Monel 400 Monel 400										
12	Hastelloy C-279 Hastelloy C-279											
13	Inconel	Inconel 625 Inconel 625										
14	4 Inconel 825			Incor	Inconel 825							
6 вс	ONNET TYPE	s										
1	OS	&Y	2	N∈	eedle	3	Anti-	amper	4	Anti-	tamper lockab	le
7 BO	NNET COM			T			ı					
		SH1			SH2			SH3			SH4	
	Primary	Secondary	Vent	Primary	Secondary	Vent	Primary	Secondary	Vent	Primary	Secondary	Vent
01	1			_		_						
02		-	-	1	-	2	1	2	2	1	2	-
	2	-	-	1	-	2 3	1	2	2 3	1	2	-
03	2	- - -	-		- - -							
03 04		- - -		1	- - -	3	1	2	3	1	3	-
	3			1 1	- - - -	3 4	1	2 2 3 3	3 4	1 1	3 4	-
04	3	- - - -	-	1 1 2	- - - -	3 4 2	1 1 1	2 2 3	3 4 3	1 1 2	3 4 2	-
04 05	3	- - - - -	- - -	1 1 2 2	- - - - -	3 4 2 3	1 1 1 1	2 2 3 3	3 4 3 4	1 1 2 2	3 4 2 3	-
04 05 06	3	- - - - - -	- - -	1 1 2 2 2 2 3 3	- - - - - -	3 4 2 3 4	1 1 1 1 2 2 2	2 2 3 3 2 2	3 4 3 4 2 3 4	1 1 2 2 2 2 3 3	3 4 2 3 4 3 2	- - - - -
04 05 06 07 08	3	- - - - - - - -	- - - -	1 1 2 2 2 2 3		3 4 2 3 4 2 3	1 1 1 1 2 2 2	2 2 3 3 2 2 2 2	3 4 3 4 2 3 4	1 1 2 2 2 2 3 3	3 4 2 3 4 3 2	- - - - - - -
04 05 06 07 08 8 os HH	3 4 - - - - - - - H	andwheel	- - - -	1 1 2 2 2 2 3 3 3 9 SEALS	PTFE So	3 4 2 3 4 2 3	1 1 1 2 2 2 10 BLE	2 2 3 3 2 2 2 ED CONNEC	3 4 3 4 2 3 4 TION	1 1 2 2 2 2 3 3	3 4 2 3 4 3 2 INECTION OL	- - - - - - - - -
04 05 06 07 08 8 os	3 4 - - - - - - - H	andwheel vheel lockabl	- - - -	1 1 2 2 2 2 3 3 3 9 SEALS		3 4 2 3 4 2 3	1 1 1 2 2 2 10 BLE	2 2 3 3 2 2 2 2	3 4 3 4 2 3 4 TION	1 1 2 2 2 2 3 3 3 T11 CON	3 4 2 3 4 3 2 INECTION OL ½" NPT I	- - - - - - - - - nt.
04 05 06 07 08 8 os HH	3 4 - - - - - - - H	andwheel	- - - -	1 1 2 2 2 2 3 3 3 9 SEALS	PTFE So	3 4 2 3 4 2 3	1 1 1 2 2 2 10 BLE	2 2 3 3 2 2 2 ED CONNEC	3 4 3 4 2 3 4 TION	1 1 2 2 2 2 3 3 3 11 COM	3 4 2 3 4 3 2 INECTION OU ½" NPT I 34" NPT I ½" BSPT	- - - - - - - - - - - - - - - - - - -
04 05 06 07 08 8 os HH	3 4 - - - - - - - H	andwheel vheel lockabl	- - - -	1 1 2 2 2 2 3 3 3 9 SEALS	PTFE So	3 4 2 3 4 2 3	1 1 1 2 2 2 10 BLE	2 2 3 3 2 2 2 ED CONNEC	3 4 3 4 2 3 4 TION	1 1 2 2 2 3 3 3 11 con 1 2	3 4 2 3 4 3 2 INECTION OL ½" NPT I ½" BSPT ½" BSPT	- - - - - - VTLET nt. nt.
04 05 06 07 08 8 os HH HL TB	3 4 - - - - - - - H	andwheel vheel lockabl T-bar	- - - -	1 1 2 2 2 2 3 3 3 9 SEALS	PTFE So	3 4 2 3 4 2 3	1 1 1 2 2 2 10 BLE	2 2 3 3 2 2 2 ED CONNEC	3 4 3 4 2 3 4 TION	1 1 2 2 2 3 3 3 111 con 1 2 3	3 4 2 3 4 3 2 INECTION OU ½" NPT I 34" NPT I ½" BSPT	- - - - - - VTLET nt. nt.
04 05 06 07 08 8 os HH HL TB	3 4 - - - - - - - H	andwheel vheel lockabl T-bar	- - - -	1 1 2 2 2 2 3 3 3 9 SEALS	PTFE So	3 4 2 3 4 2 3	1 1 1 2 2 2 10 BLE	2 2 3 3 2 2 2 ED CONNEC	3 4 3 4 2 3 4 TION	1 1 2 2 2 3 3 3 11 CON 1 2 3 4	3 4 2 3 4 3 2 INECTION OL ½" NPT I ½" BSPT ½" BSPT	

Example: SH3515J-04-02-HHGTT121

Slim line valve double block and bleed, 1" 1500lbs RTJ face. Body material A182 22Cr. Duplex, trim material 22Cr Duplex. Primary isolate = OS&Y - Secondary isolate = Needle - Vent=Anti-tamper.OS&Y operation is a handwheel, seals is Graphite/PTFE/PTFE, ½"NPT int. vent connection, ½" NPT int. outlet connection.

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