



BE-LOK INSTRUMENT FITTINGS
INC

CONDENSATE-POT

100% Factory Tested For Both Crack & Reseal



Engineering Expertise

@ www.be-lok.com

Introduction

BE-LOK INSTRUMENT FITTINGS INC. A fast-growing manufacturing company spread across an area of 5500 m² (Meters Squared). We are having experience and expertise with advanced technology in design, development and production of high-quality fittings and valves for Instrumentation, Hydraulic, Chemical Injection and Oil & Gas Applications.

We are having state of the art manufacturing facility. We use the Latest manufacturing technologies for highest precision and lowest tolerance. Our well-equipped Manufacturing and Testing facilities is most comprehensive, technically advanced and system oriented.

We manufacture all our products in our own manufacturing facilities under strict quality assurance procedure.

Our products are in line with international specification requirements in quality, safety, consistency and reliability apart from the competitive price. We ensure that our products are quality checked before being shipped to our clients' location.

We are recognised by International Quality Management Systems & Certified by ISO 9001:2015, ISO 14001:2015, ISO 45001:2018, PED 2014/68/EU, ASTM F1387-19, Interchangeability Test Report, MSS-SP-99-2016a etc.

As we are having 20% Market in Domestic Areas and have a 80% hold in international market.

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Features

- Used as liquid or condensate traps, sealed vessels, steam chambers and a separation chamber.
- Chambers are made from seamless tube and welded bonnets.
- Tungsten arc welding of the seam provides high strength and tightness.
- Weld seams are X-ray tested.
- The branch ports in the form of half-couplings made at a 90 degree angle.
- The ratings of the half-coupling are selected based on the ratio of the fitting class to the gauge number or seamless pipe wall thickness as specified in ASME B16.11 for socket and threaded connections.
- Additional port connections can be provided upon request.
- **BE-LOK** high-quality ball valves and needle valves can be installed at the outlets and drain.

Technical Characteristics


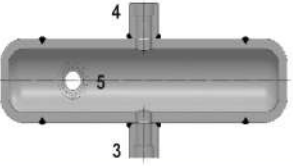
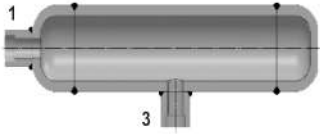
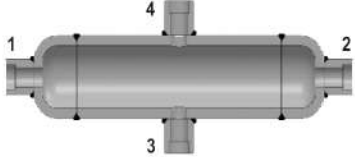

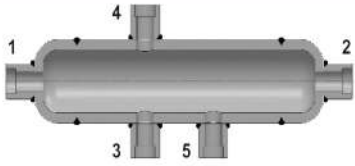
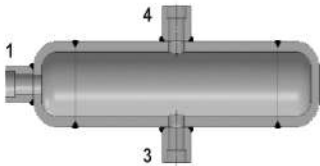
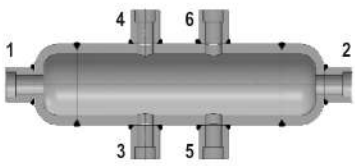
- Pipe size NPS 2 (DN15), NPS 3 (DN80), NPS 4 (DN100) or larger (upon request).
- Pipe size 40, 80, 160, XXS- seamless tube.
- Temperature rating up to 200°C (392°F).
- Working pressure up to 413 bar (6,000 psig).
- Various port connection
- Butt weld according to ANSI B16.9., Socket welding according to ANSI B16.11.
- All NPT tapered threads are in accordance with ASME B1.20.1.
- Material- 316 SS, 304 SS, Carbon Steel, Other material upon request.
- Possible from the material for sour gas application in accordance with NACE MR0175/ ISO 15156 or NACE MR0175 / ISO 15156 or NACE MR0103 / ISO 17495.
- Welds according to ASME BPVC Section IX by certified operators.
- Radiographic testing and dye-penetrant test.
- All condensate pots are testing prior to shipment to the customer.
- The hydrostatic test is carried out in clean water at a pressure of 1.5 times the working pressure.
- Pneumatic test is carried out in air / nitrogen environment at 500 psig.
- All product are traceable to the heat number.
- All threads are protected by plastic caps.
- Laser marking when possible.
- Test reports according to EN10204 3.1B.

Connection Types and Sizes

Connection Type		Size	Standard
For Welding	Socket Weld	1/2" (DN 15)*	ASME B16.11
	Buttweld		ASME B16.9
Threaded	NPT		ASME B1.20.1

1/2" is the standard end fittings. Other sizes are available on request

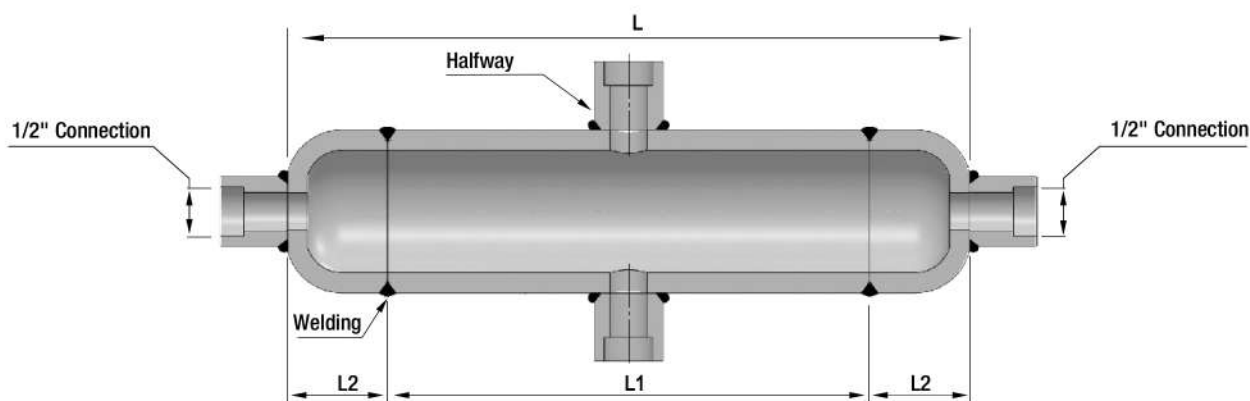
Configuration of Condensate Pots

Designation	Schematic Illustration	Designation	Schematic Illustration
2A		3C	
2B		4A	
3A		5A	
3B		6A	

Materials

Material	Pipe	Bonnet	Half-Coupling
Carbon Steel	A106 Grade B	A234	A105
SS 316	A312 TP316	A182 F316, A240 SS316	A182 F316
SS 316L	A312 TP316L	A182 F316, A240 SS316L	A182 F316L
SS 304	A312 TP304	A182 F304, A240 SS304	A182 F304
SS 304L	A312 TP304L	A182 F304, A240 SS304L	A182 F304L
Ferritic Steel	A335 Grade P11	A182 F11	A182 F11
Ferritic Steel	A335 Grade P12	A182 F12	A182 F12
Ferritic Steel	A335 Grade P22	A182 F22	A182 F22

Dimensions



Pipe Size (DN)	Rating	Capacity	Part Number	Diameter	L1	L2	L
NPS 2-1/2 (DN 65)	80	1 Ltr.	B-CONPOT-1L-2-80-2A-8-NF-SS	60.3	563	38	639
	160	1 Ltr.	B-CONPOT-1L-2-160-2A-8-NF-SS		720		796
	XXS	1 Ltr.	B-CONPOT-1L-2-XXS-2A-8-NF-SS		1201		1277
	80	2 Ltr.	B-CONPOT-2L-2-80-2A-8-NF-SS		1158		1234
	160	2 Ltr.	B-CONPOT-2L-2-160-2A-8-NF-SS		1468		1544
	XXS	2 Ltr.	B-CONPOT-2L-2-XXS-2A-8-NF-SS		2424		2500
	80	3 Ltr.	B-CONPOT-3L-2-80-2A-8-NF-SS		1752		1828
	160	3 Ltr.	B-CONPOT-3L-2-160-2A-8-NF-SS		2215		2291
	XXS	3 Ltr.	B-CONPOT-3L-2-XXS-2A-8-NF-SS		3647		3723
	80	4 Ltr.	B-CONPOT-4L-2-80-2A-8-NF-SS		2346		2422
	160	4 Ltr.	B-CONPOT-4L-2-160-2A-8-NF-SS		2963		3039
	XXS	4 Ltr.	B-CONPOT-4L-2-XXS-2A-8-NF-SS		4870		4946
	80	5 Ltr.	B-CONPOT-5L-2-80-2A-8-NF-SS		2940		3016
	160	5 Ltr.	B-CONPOT-5L-2-160-2A-8-NF-SS		3711		3787
	XXS	5 Ltr.	B-CONPOT-5L-2-XXS-2A-8-NF-SS		6093		6195
NPS 3 (DN 80)	80	1 Ltr.	B-CONPOT-1L-3-80-2A-8-NF-SS	88.9	185	51	287
	160	1 Ltr.	B-CONPOT-1L-3-160-2A-8-NF-SS		242		344
	XXS	1 Ltr.	B-CONPOT-1L-3-XXS-2A-8-NF-SS		334		436
	80	2 Ltr.	B-CONPOT-2L-3-80-2A-8-NF-SS		420		522
	160	2 Ltr.	B-CONPOT-2L-3-160-2A-8-NF-SS		528		630
	XXS	2 Ltr.	B-CONPOT-2L-3-XXS-2A-8-NF-SS		707		809
	80	3 Ltr.	B-CONPOT-3L-3-80-2A-8-NF-SS		655		757
	160	3 Ltr.	B-CONPOT-3L-3-160-2A-8-NF-SS		815		917
	XXS	3 Ltr.	B-CONPOT-3L-3-XXS-2A-8-NF-SS		1080		1182
	80	4 Ltr.	B-CONPOT-4L-3-80-2A-8-NF-SS		889		991
	160	4 Ltr.	B-CONPOT-4L-3-160-2A-8-NF-SS		1101		1203
	XXS	4 Ltr.	B-CONPOT-4L-3-XXS-2A-8-NF-SS		1453		1555
	80	5 Ltr.	B-CONPOT-5L-3-80-2A-8-NF-SS		1124		1226
	160	5 Ltr.	B-CONPOT-5L-3-160-2A-8-NF-SS		1388		1490
	XXS	5 Ltr.	B-CONPOT-5L-3-XXS-2A-8-NF-SS		1826		1928
NPS 4 (DN 100)	80	1 Ltr.	B-CONPOT-1L-4-80-2A-8-NF-SS	114.3	70	64	198
	160	1 Ltr.	B-CONPOT-1L-4-160-2A-8-NF-SS		109		237
	XXS	1 Ltr.	B-CONPOT-1L-4-XXS-2A-8-NF-SS		145		273
	80	2 Ltr.	B-CONPOT-2L-4-80-2A-8-NF-SS		205		333
	160	2 Ltr.	B-CONPOT-2L-4-160-2A-8-NF-SS		276		404
	XXS	2 Ltr.	B-CONPOT-2L-4-XXS-2A-8-NF-SS		344		472
	80	3 Ltr.	B-CONPOT-3L-4-80-2A-8-NF-SS		340		468
	160	3 Ltr.	B-CONPOT-3L-4-160-2A-8-NF-SS		443		571
	XXS	3 Ltr.	B-CONPOT-3L-4-XXS-2A-8-NF-SS		542		670
	80	4 Ltr.	B-CONPOT-4L-4-80-2A-8-NF-SS		474		602
	160	4 Ltr.	B-CONPOT-4L-4-160-2A-8-NF-SS		609		737
	XXS	4 Ltr.	B-CONPOT-4L-4-XXS-2A-8-NF-SS		741		869
	80	5 Ltr.	B-CONPOT-5L-4-80-2A-8-NF-SS		609		737
	160	5 Ltr.	B-CONPOT-5L-4-160-2A-8-NF-SS		776		904
	XXS	5 Ltr.	B-CONPOT-5L-4-XXS-2A-8-NF-SS		939		1067

Identification

Every condensate pot is identified with laser marking made on an austenitic stainless steel strip or directly onto the pipe of the condensate pot. The marking includes the following information :

Information	Sample (Translation)
Serial Number	PCDPT101255
Code Number	On Request
Description	Condensate Pot (Condensation vessel)
Material	Stainless Steel SS316L
Pressure Rating	LP 133 barg / HP 192 barg
Maximum Working Pressure	LP 133 barg / HP 192 barg
Testing Pressure	LP 199.5 barg / HP 288 barg
Temperature Range	From 0°C Min. to 200°C Max.
Outlet Size	1/2" NPT (F) (Internal Thread 1/2" NPT)
Date	Manufacturing Date
Manufacturer	BE-LOK®

Class Designation for Couplings and Hexagonal Plugs

Pipe Used for Rating Basis		Fitting Class According to ASME B16.11	Fitting Type
Gauge Number	Wall Thickness		
40	STD	2000	Threaded
80	XS	2000	Threaded
160	-	3000	Threaded
-	XXS	6000	Threaded
40	STD	3000	Socket Welded
80	XS	3000	Socket Welded
160	-	3000	Socket Welded
-	XXS	3000	Socket Welded

Testing

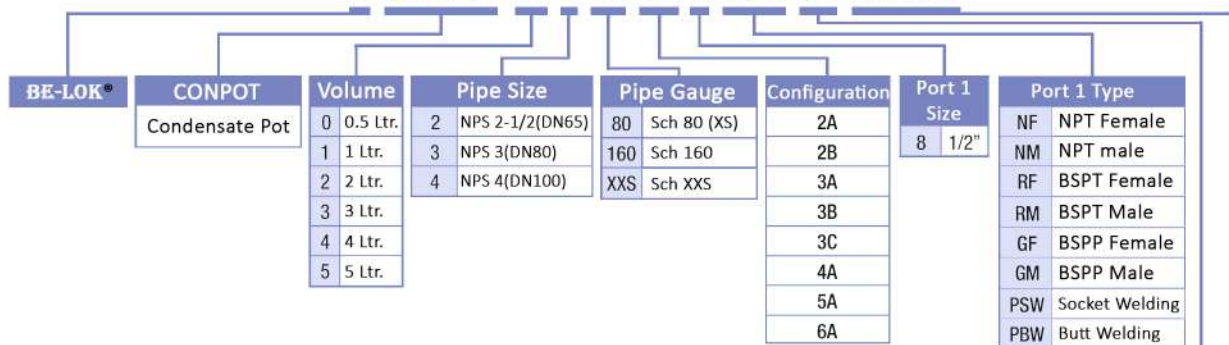
Every condensate pot is pneumatically tested in air / nitrogen at pressure 500 psi per sq. inch. The casing is hydrostatically tested in clean water at a pressure of 1.5 times above the operating pressure.

The following weld seam tests can be carried out on request :

- Welds test by dye-penetrant method according to ASME BPVC Section V Article 6 and certification- according to ASME BPVC Section VIII Division 1 Appendix 8.
- Radiographic weld test according to ASME BPVC Section V Article 2 and certification- according to ASME BPVC Section VIII Division 1 UW- 51.

Ordering Information

B-CONPOT-1L-2-80-4A-8-PSW-SS-HHP-SG



HHP-SG

Material	
SS	Stainless Steel 316
SSL	Stainless Steel 316L
SS3	Stainless Steel 304
CS	Carbon Steel
P11	Ferrite Steel A335-P11
P12	Ferrite Steel A335-P12
P22	Ferrite Steel A335-P22
Inc 625	Inconel 625
Inc 825	Inconel 825
HC	Hastalloy C276
6MO	UNS S31254
MO	Monel 400

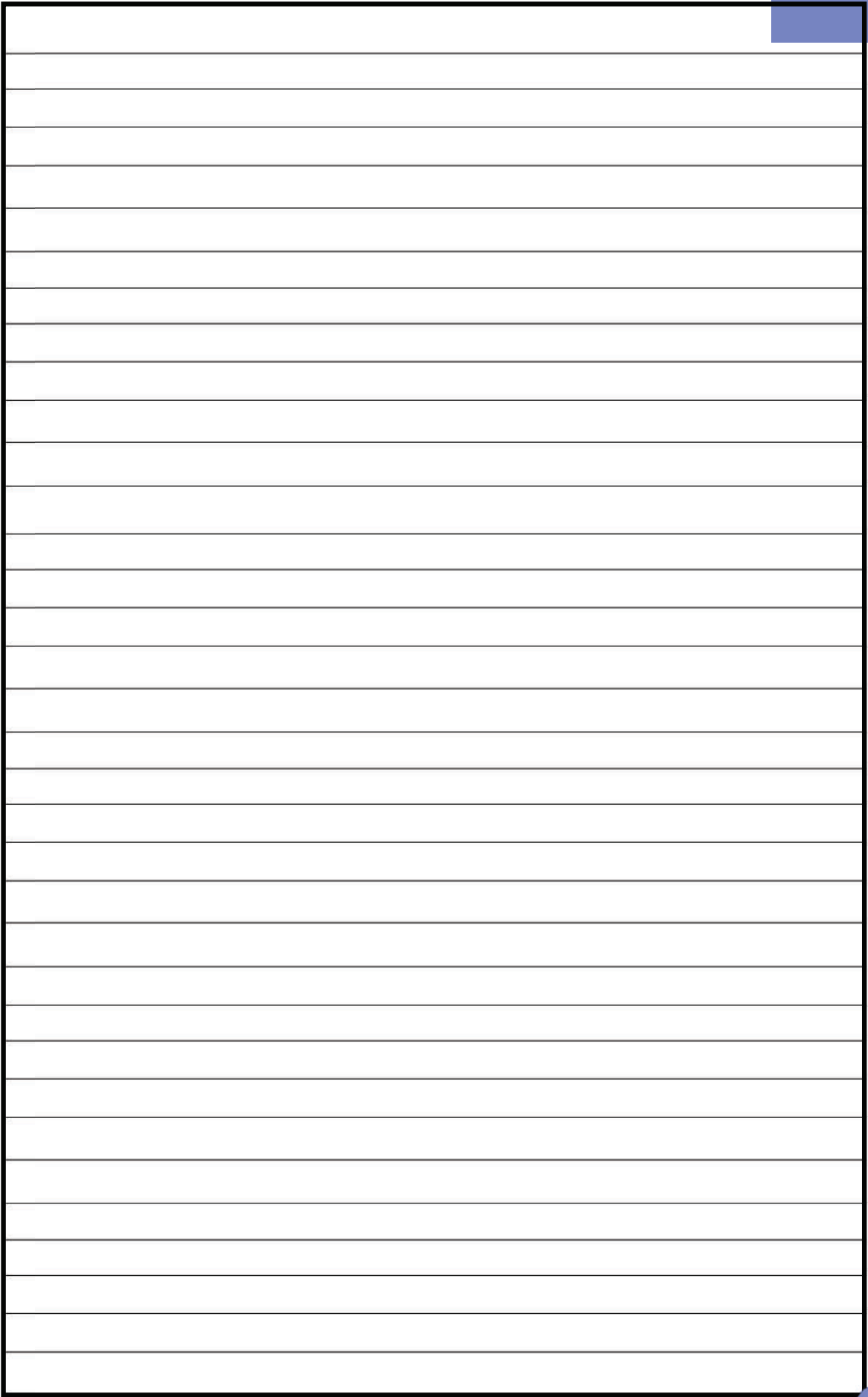
Hexagonal Caps at Ports	
-	No
HHP	Yes

Optional	
SG	NACE MR-01-75/ISO 15156

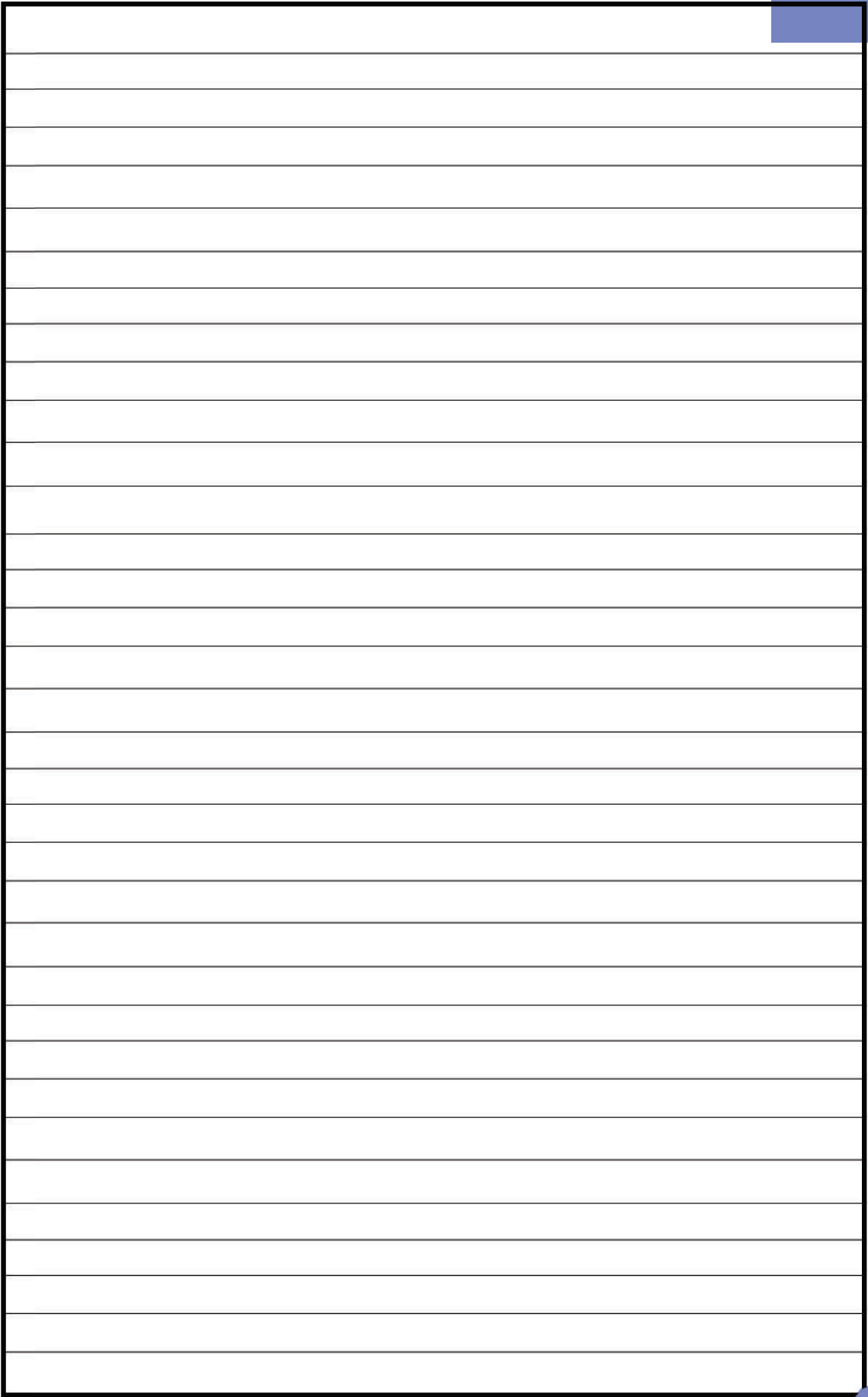
NOTE : Continuous product development from time to time necessitate changes in the details contained in the catalogue. **BE-LOK®** reserve the right to make such changes at their discretion and without prior notice. The Selection of a Condensate Pot for any application or system design must be considered to ensure safe performance. Condensate Pot function, rating, material compatibility, proper installation, operation and maintenance remain the sole responsibility of the system designer and the user.

BE-LOK® accepts no liability for any improper selection, installation, operation or maintenance.

Notes

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Notes

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Products



Flange Adapter



Pipe Fitting



Flare Fitting



Valve Manifold



Thermowells



Check Valve



Tube Fitting



Needle Valve



Weld Fitting



Swivel Adapter



High Pressure



Gauge Root



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