

XOMOX®

L-TORQ XOMOX® SLEEVED PLUG VALVES



TECHNICAL DATASHEET

DIN DESIGN

CRANE

v in

www.cranecpe.com

Product Overview

L-TORQ by XOMOX Sleeved Plug Valves

L-TORQ by XOMOX brings remarkable benefits in torque, reparability and emissions performance, while maintaining the primary properties of a sleeved plug valve:

- Significant torque reduction and cost-effective automation package
- Complete cartridge kit for ease of repair
- In-line valve repair for maintenance, reducing downtime
- Independent plug adjustment and adjustable stem packing
- Designed to meet the latest Fugitive Emission Compliance according to ISO 15848-1

STANDARD FEATURES INCLUDE:

- Material of construction: WCB, CF8M, CN7M, CD4
- Automation packages: XRP, Matryx, Westlock limit switch, positioner
- Sealing and Packing:
 - Cover Joint: 50% PTFE - 50% Graphite Spiral Wound Gasket with Monel or SS trim
 - Stem Seals: PTFE or Graphite
- Actuator Mounting: ISO 5211 mounting
- Fugitive emissions:
 - New TA-Luft
 - ISO 15848-1 BH CO3 200°C SSA0 Standard

OPTIONAL FEATURES INCLUDE:

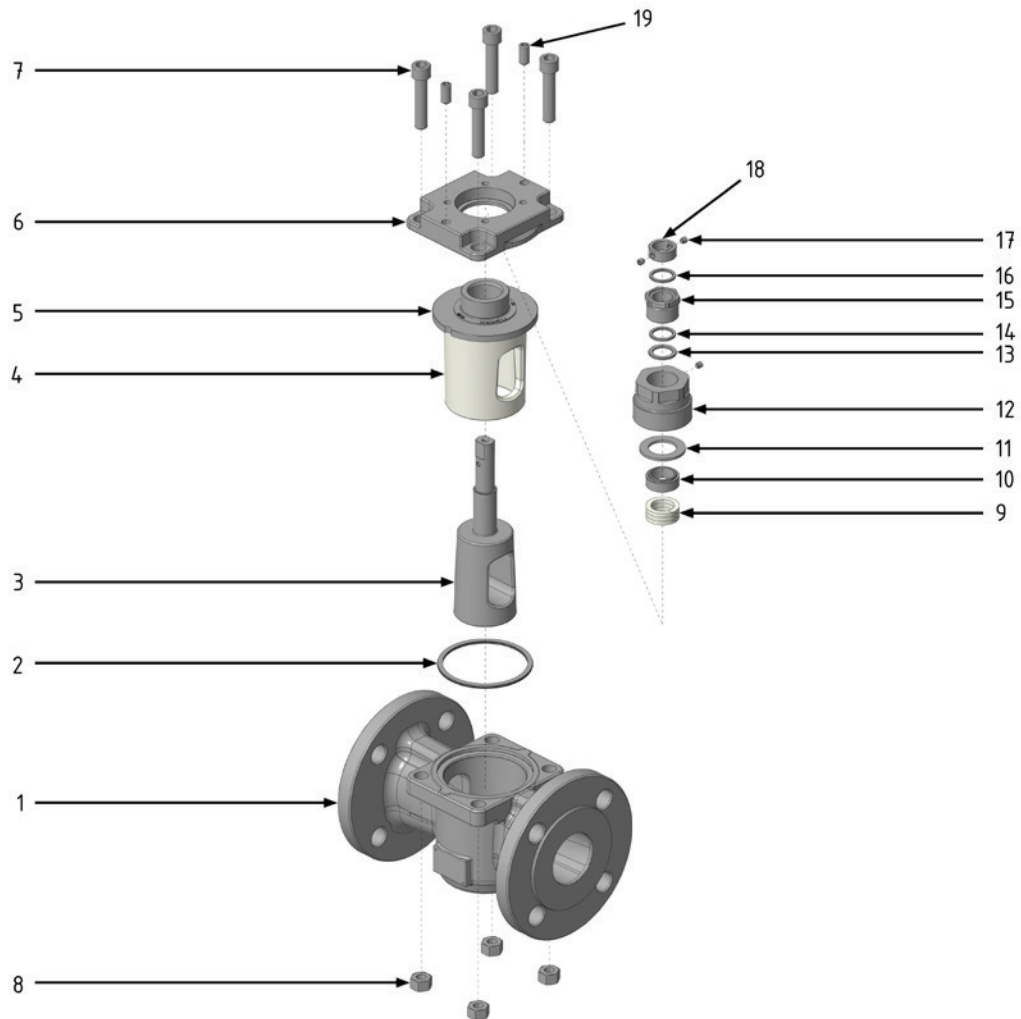
- Material of construction: M35-1, CW6M, CZ100 and other alloys
- Partial jackets
- Firesafe
- JIS standard



Product Range

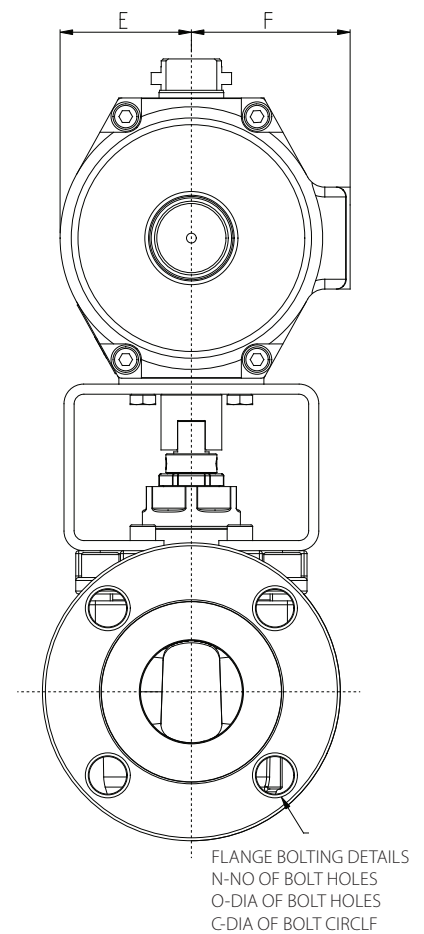
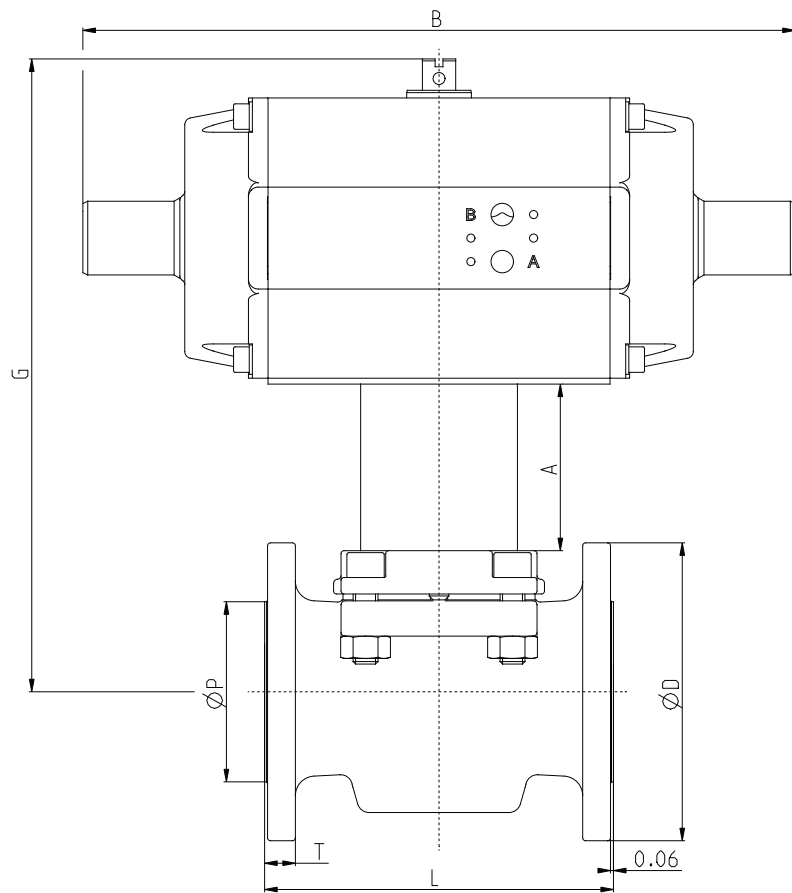
SIZE	CLASS	BODY DESIGN	FACE-TO-FACE DIMENSION	BODY MATERIAL
DN 15- DN 150	PN 10-40	Flanged	ISO 5752	1.0619 1.4408

Exploded View and Materials of Construction



ITEM	DESCRIPTION	CARBON STEEL	STAINLESS STEEL
1	Body	1.0619+QT	1.4408
2	Body-Cover Gasket	316L SS, PTFE/Graphite Blend (Donnit MS10T)	316L SS, PTFE/Graphite Blend (Donnit MS10T)
3	Plug	1.4408	1.4408
4	Molded Sleeve	PFA	PFA
5	Sleeve Cartridge	ASTM A351 CF8M & DIN 1.4408	ASTM A351 CF8M & DIN 1.4408
6	Cover	1.0619+QT	1.4408
7	Cover Bolts	ISO 3506-1 A4-70	ISO 3506-1 A4-70
8	Cover Nuts	ISO 3506-1 A4-70	ISO 3506-1 A4-70
9	Stem Packing	PTFE (Latty 3265 LM) or Graphite (Chesterton 1622)	PTFE (Latty 3265 LM) or Graphite (Chesterton 1622)
10	Packing Follower	316 SS	316 SS
11	Belleville Washer	17-7PH SS	17-7PH SS
12	Gland	ASTM A351 CF8M	ASTM A351 CF8M
13	Hard Washer	17-4PH SS	17-4PH SS
14	Soft Washer	CuNi14Al3	CuNi14Al3
15	Adjustment Nut	1.4470 CD3MN	1.4470 CD3MN
16	Soft Washer	CuNi14Al3	CuNi14Al3
17	Dog Point Screw	18-8 SS	18-8 SS
18	Collar	321 SS	321 SS
19	Jacking Screw	18-8 SS	18-8 SS

L-TORQ by XOMOX fig. L127 - Single Acting with 5,5 bar air supply Dimensions and Weights

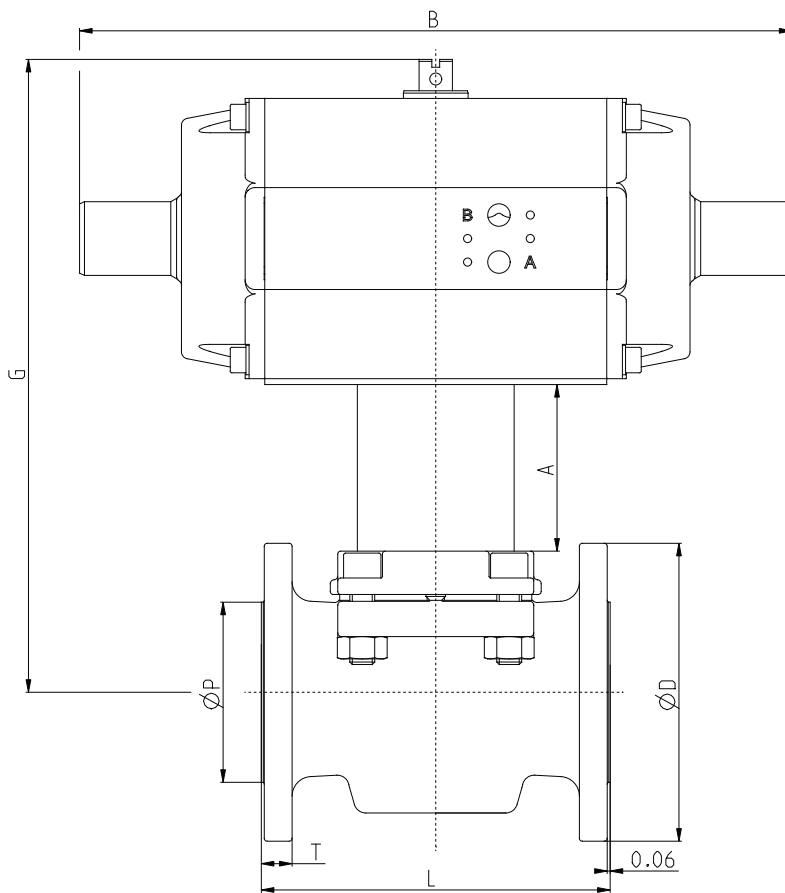


L-TORQ XOMOX FIG. L127

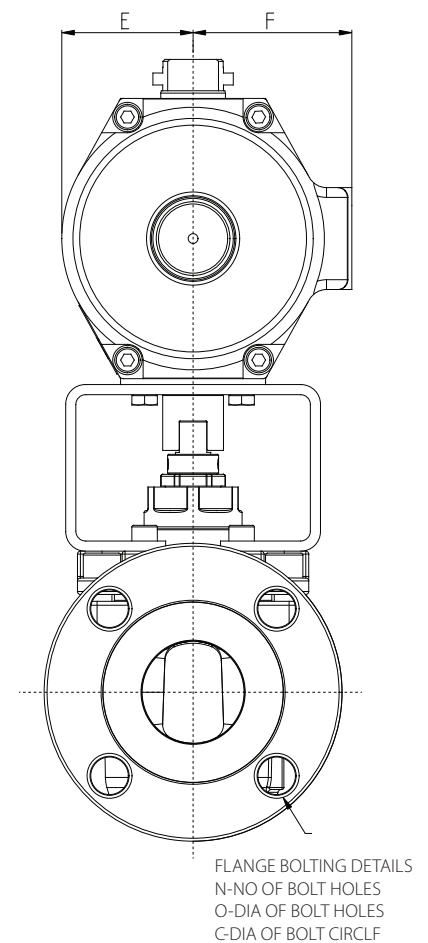
Size	Class	Dimensions (mm)												ISO Flange	Weight (kg)
		A	B	C	D	E	F	G	L	N	O	P	T		
DN15	PN10-40	64	197.25	65	95	34.7	41.5	199	130	4	14	45	16	F05	5.5
DN20	PN10-40	64	197.25	75	105	34.7	41.5	199	150	4	14	58	18	F05	6.5
DN25	PN10-40	66	260.9	85	115	41	55.5	226.1	160	4	14	68	18	F07	9.5
DN32	PN10-40	66	260.9	100	140	41	55.5	226.1	180	4	18	78	18	F07	10.5
DN40	PN10-40	85	288.1	110	150	55	69	288.1	200	4	18	88	18	F07	14.5
DN50	PN10-40	85	363.5	125	165	67	81	322.9	230	4	18	102	20	F07	22.5
DN65	PN10-40	85	363.5	145	185	67	81	322.9	290	8	18	122	22	F07	25.5
DN80	PN10-40	85	363.5	160	200	67	81	336.9	310	8	18	138	24	F07	32.5
DN100	PN10-16	105	451.7	180	220	78	96	408.2	350	8	18	158	20	F10	46.5
DN125*	PN10-16	110	529	210	250	90	102	473.1	267	4/4	M16/18	188	26	F12	66.5
DN150	PN10-16	110	529	240	285	90	102	473.1	267	8	22	212	22	F12	75.5
DN100	PN25-40	105	451.7	190	235	78	96	408.2	350	8	22	162	24	F10	50.5
DN125*	PN25-40	110	529	220	270	90	102	473.1	267	4/4	M24/26	188	26	F12	67.5
DN150	PN25-40	110	529	250	300	90	102	473.1	350	8	26	218	28	F12	88.5
DN150*	PN25-40	110	529	250	300	90	102	473.1	267	4/4	M24/26	218	28	F12	83.5

* O - 4NOS. THRU HOLES & 4 NOS. TAPPED HOLES

L-TORQ by XOMOX fig. L127 - Double Acting with 5,5 bar air supply Dimensions and Weights



L-TORQ XOMOX FIG. L127

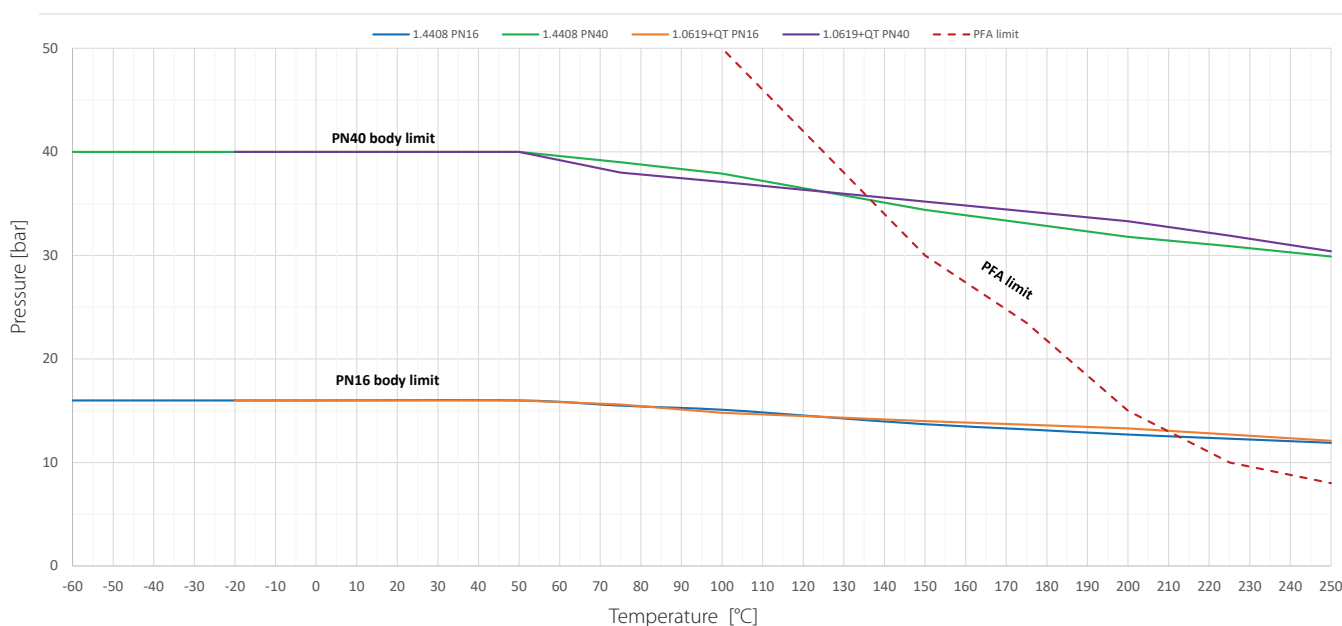


Size	Class	Dimensions (mm)												ISO Flange	Weight (kg)
		A	B	C	D	E	F	G	L	N	O	P	T		
DN15	PN10-40	64	165.85	65	95	25.5	33	179	130	4	14	45	16	F05	4.5
DN20	PN10-40	64	165.85	75	105	25.5	33	179	150	4	14	58	18	F05	5.5
DN25	PN10-40	66	197.55	85	115	34.7	41.5	212.2	160	4	14	68	18	F07	8.5
DN32	PN10-40	66	197.55	100	140	34.7	41.5	212.2	180	4	18	78	18	F07	9.5
DN40	PN10-40	85	260.9	110	150	41	55	258	200	4	18	88	18	F07	14.5
DN50	PN10-40	85	288.1	125	165	55	69	297.4	230	4	18	102	20	F07	20.5
DN65	PN10-40	85	288.1	145	185	55	69	297.4	290	8	18	122	22	F07	23.5
DN80	PN10-40	85	288.1	160	200	55	69	311.4	310	8	18	138	24	F07	30.5
DN100	PN10-16	105	363.5	180	220	67	81	378.4	350	8	18	158	20	F10	42.5
DN125*	PN10-16	110	451.7	210	250	78	96	446.9	267	4/4	M16/18	188	26	F12	63.5
DN150	PN10-16	110	451.7	240	285	78	96	446.9	267	8	22	212	22	F12	71.5
DN100	PN25-40	105	363.5	190	235	67	81	378.4	350	8	22	162	24	F10	47.5
DN125*	PN25-40	110	451.7	220	270	78	96	446.9	267	4/4	M24/26	188	26	F12	65.5
DN150	PN25-40	110	451.7	250	300	78	96	446.9	350	8	26	218	28	F12	83.5
DN150*	PN25-40	110	451.7	250	300	78	96	446.9	267	4/4	M24/26	218	28	F12	78.5

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Pressure and Temperature Ratings

Temp [°C]:	-60	-20	0	50	75	100	125	150	175	200	225	250	300
1.4408 PN16	16	16	16	16	15.5	15.1	14.40	13.7	13.20	12.7	12.3	11.9	11
1.4408 PN40	40	40	40	40	39.0	37.9	36.15	34.4	33.10	31.8	30.9	29.9	27.6
1.0619+QT PN16		16	16	16	15.6	14.8	14.40	14.0	13.65	13.3	12.7	12.1	11
1.0619+QT PN40		40	40	40	38.0	37.1	36.15	35.2	34.25	33.3	31.9	30.4	27.6
PFA limit	100	100	100	100	90	50	40	30	23.50	15	10	8	



MAST and Kvs/Cv Values

MAST PN 16 & PN 40

Size	1.4408	1.4470 (Duplex)
DN 15	62	96
DN 20	62	96
DN 25	107	164
DN 40	222	343
DN 50	222	343
DN 65	222	343
DN 80	222	343
DN 100	576	892
DN 125	852	1318
DN 150	852	1318

Kvs / Cv Values PN 16 & PN 40

Size	KV	CV
DN 15	14	16
DN 20	16	19
DN 25	47	54
DN 32	47	54
DN 40	103	119
DN 50	190	220
DN 65	190	220
DN 80	350	405
DN100	615	711
DN125	615	711
DN150 SHORT	1066	1232
DN150 LONG	1109	1282

How to Order

DN 25 L127 6 6 P6 A C	Valve Size 1/2" / DN15 3/4" / DN20 1" / DN25 1-1/2" / DN40 2" / DN50 3" / DN80 4" / DN100 6" / DN150 Figure Number ASME L067 - 150 Class L0367 - 300 Class DIN L127 - PN 10-40 Body Material <table border="0"> <thead> <tr> <th style="text-align: left;"><u>Grade</u></th> <th style="text-align: left;"><u>Character</u></th> </tr> </thead> <tbody> <tr><td>CN7M/1.4500.....</td><td>0</td></tr> <tr><td>WCB/1.069.....</td><td>2</td></tr> <tr><td>M35-1/ 2.4365.....</td><td>H</td></tr> <tr><td>CZ-100/ 2.4066.....</td><td>5</td></tr> <tr><td>CF8M/ 1.4408.....</td><td>6</td></tr> <tr><td>CW6M/ 2.4856.....</td><td>T</td></tr> <tr><td>CD4MCuN/1.4470 Duplex.....</td><td>BN</td></tr> <tr><td>CY40/ 2.4817.....</td><td>40</td></tr> <tr><td>Other (Specify).....</td><td>X</td></tr> </tbody> </table> Plug/Cartridge Material <table border="0"> <thead> <tr> <th style="text-align: left;"><u>Grade</u></th> <th style="text-align: left;"><u>Character</u></th> </tr> </thead> <tbody> <tr><td>CN7M/1.4500.....</td><td>0</td></tr> <tr><td>WCB/1.069.....</td><td>2</td></tr> <tr><td>M35-1/ 2.4365.....</td><td>H</td></tr> <tr><td>CZ-100/ 2.4066.....</td><td>5</td></tr> <tr><td>CF8M/ 1.4408.....</td><td>6</td></tr> <tr><td>CW6M/ 2.4856.....</td><td>T</td></tr> <tr><td>CD4MCuN/1.4470 Duplex.....</td><td>BN</td></tr> <tr><td>CY40/ 2.4817.....</td><td>40</td></tr> <tr><td>Other (Specify).....</td><td>X</td></tr> </tbody> </table> Service Chlorine.....C Oxygen.....O Vacuum.....V General Service.....*Blank* Other**.....X **Consult your Xomox Sales Engineer for a wide variety of other available service options. Valve Operator Actuated***.....A Gear.....G Locking T-Wrench.....T Locking Wrench.....Y Locking Gear.....Z ***Specify actuator type and air supply. Sleeve Material <table border="0"> <thead> <tr> <th style="text-align: left;"><u>Grade</u></th> <th style="text-align: left;"><u>Character</u></th> </tr> </thead> <tbody> <tr><td>PFA.....</td><td>P6</td></tr> </tbody> </table>	<u>Grade</u>	<u>Character</u>	CN7M/1.4500.....	0	WCB/1.069.....	2	M35-1/ 2.4365.....	H	CZ-100/ 2.4066.....	5	CF8M/ 1.4408.....	6	CW6M/ 2.4856.....	T	CD4MCuN/1.4470 Duplex.....	BN	CY40/ 2.4817.....	40	Other (Specify).....	X	<u>Grade</u>	<u>Character</u>	CN7M/1.4500.....	0	WCB/1.069.....	2	M35-1/ 2.4365.....	H	CZ-100/ 2.4066.....	5	CF8M/ 1.4408.....	6	CW6M/ 2.4856.....	T	CD4MCuN/1.4470 Duplex.....	BN	CY40/ 2.4817.....	40	Other (Specify).....	X	<u>Grade</u>	<u>Character</u>	PFA.....	P6
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For ordering Spare kit, please contact XOMOX Sales Representative.
Other ferrous/non -ferrous material consult XOMOX engineer



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