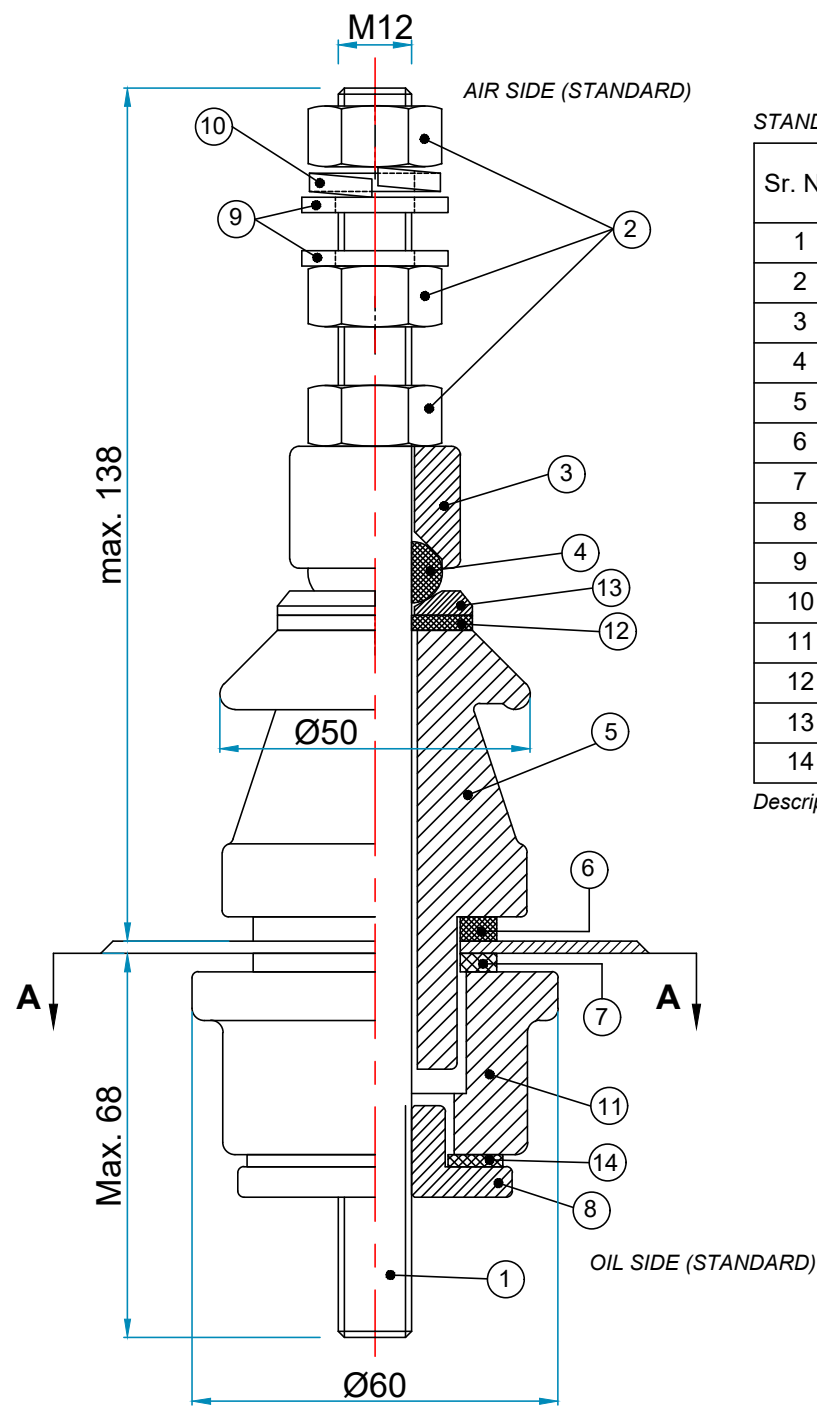




TECHNICAL CATALOGUE
**Accessories for liquid filled
transformers**

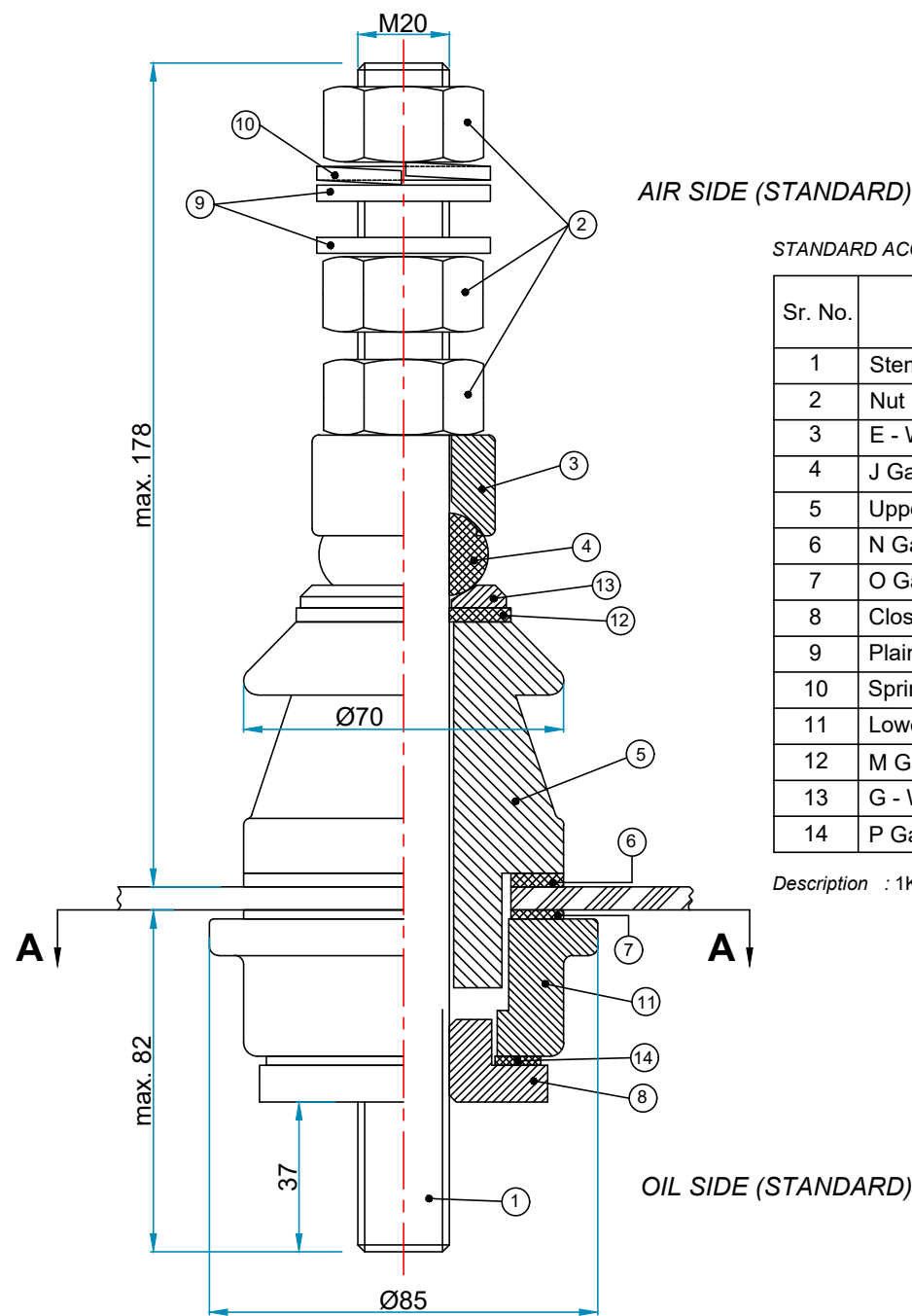
LV Bushing DIN standard



STANDARD ACCORDING TO DIN 42530

Sr. No.	ITEM DESCRIPTION		QTY.
1	Stem (M12x205)	(Brass)	01
2	Nut M12 (Full)	(Brass)	03
3	E - Washer	(Brass)	01
4	J Gasket	(NBR)	01
5	Upper Insulator	(Porcelain)	01
6	N Gasket	(NBR)	01
7	O Gasket	(PP)	01
8	Closing Pcs.	(Brass)	01
9	Plain Washer	(Brass)	02
10	Spring Washer	(SS)	01
11	Lower Insulator	(Porcelain)	01
12	M Gasket	(NBR)	01
13	G- Washer	(Brass)	01
14	P Gasket	(PP)	01

Description : 1KV 250A Bushing DIN 42530

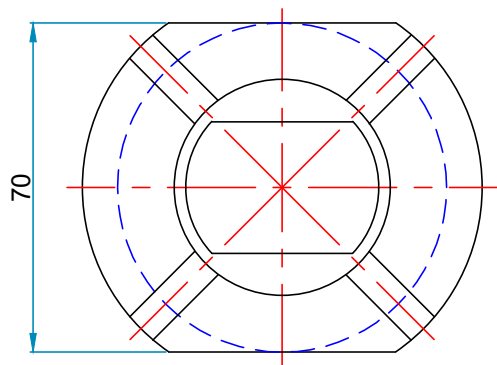


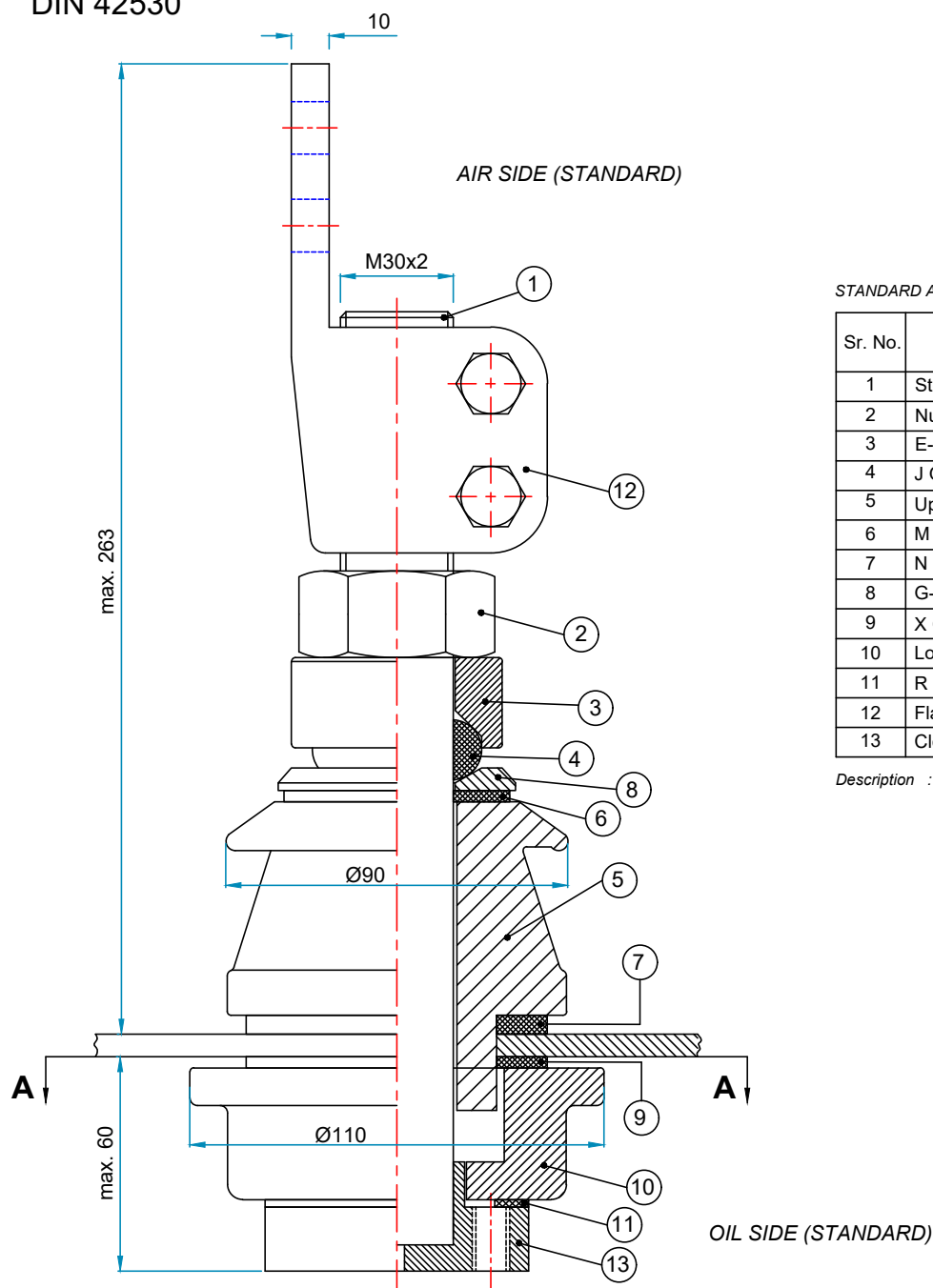
STANDARD ACCORDING TO DIN 42530

Sr. No.	ITEM DESCRIPTION		QTY.
1	Stem (M20x260)	(Copper)	01
2	Nut M20 (Full)	(Brass)	03
3	E - Washer	(Brass)	01
4	J Gasket	(NBR)	01
5	Upper Insulator	(Porcelain)	01
6	N Gasket	(NBR)	01
7	O Gasket	(PP)	01
8	Closing Pcs.	(Brass)	01
9	Plain Washer	(Brass)	02
10	Spring Washer	(SS)	01
11	Lower Insulator	(Porcelain)	01
12	M Gasket	(NBR)	01
13	G - Washer	(Brass)	01
14	P Gasket	(PP)	01

Description : 1KV 630A Bushing DIN 42530

SECTION A-A



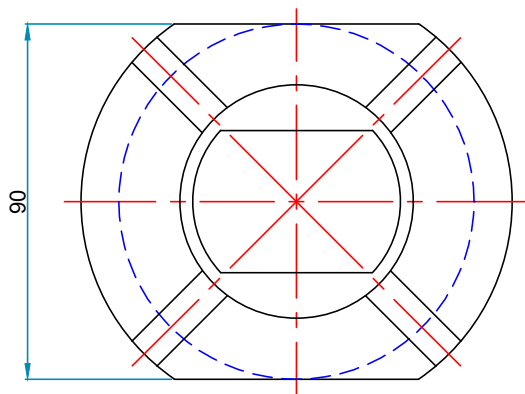


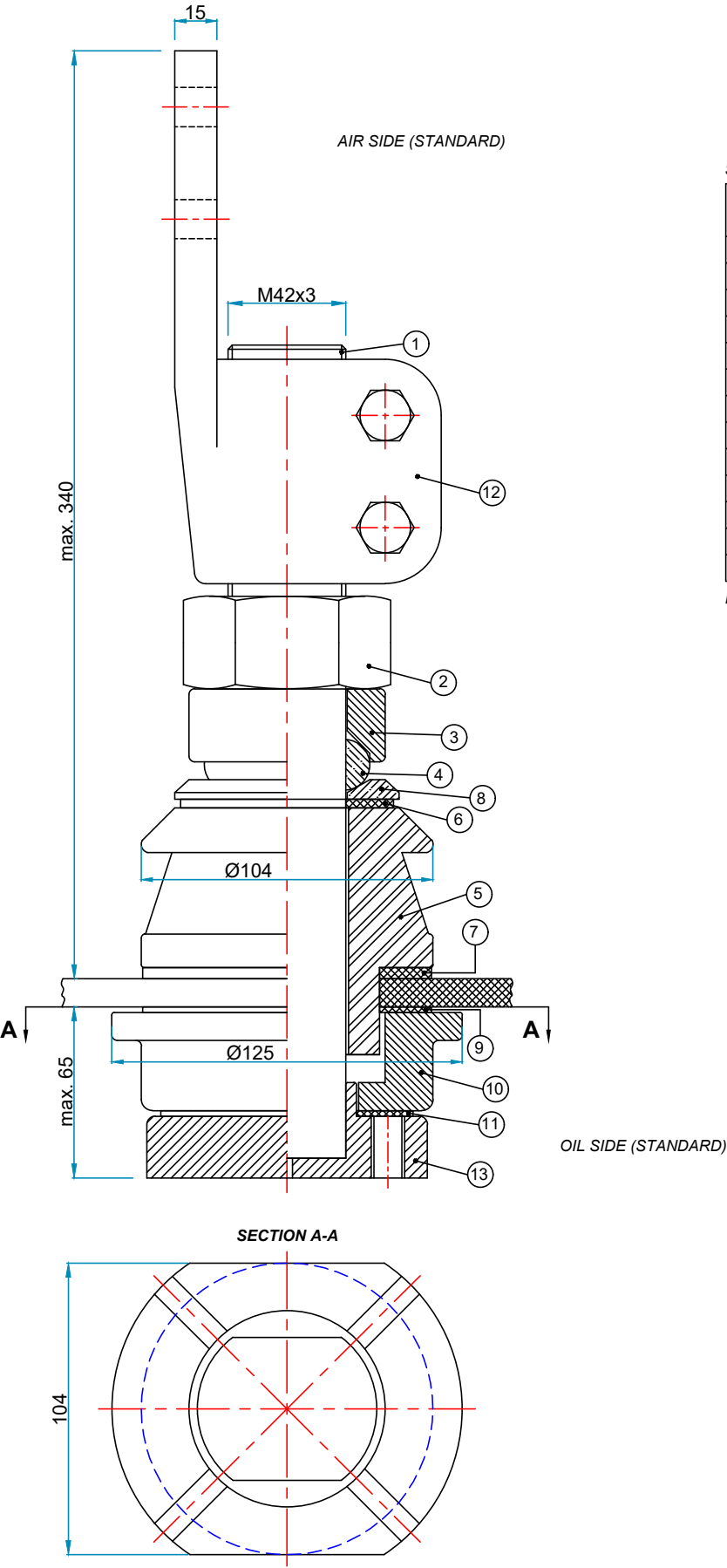
STANDARD ACCORDING TO DIN 42530

Sr. No.	ITEM DESCRIPTION		QTY.
1	Stem (M30X248)	(Copper)	01
2	Nut M30 (Full)	(Brass)	01
3	E- Washer	(Brass)	01
4	J Gasket	(NBR)	01
5	Upper Insulator	(Porcelain)	01
6	M Gasket	(NBR)	01
7	N Gasket	(NBR)	01
8	G- Washer	(Brass)	01
9	X Gasket	(PP)	01
10	Lower Insulator	(Porcelain)	01
11	R Gasket	(PP)	01
12	Flag	(Brass)	01
13	Closing Pcs.	(Brass)	01

Description : 1KV 1000A Bushing DIN 42530

SECTION A-A

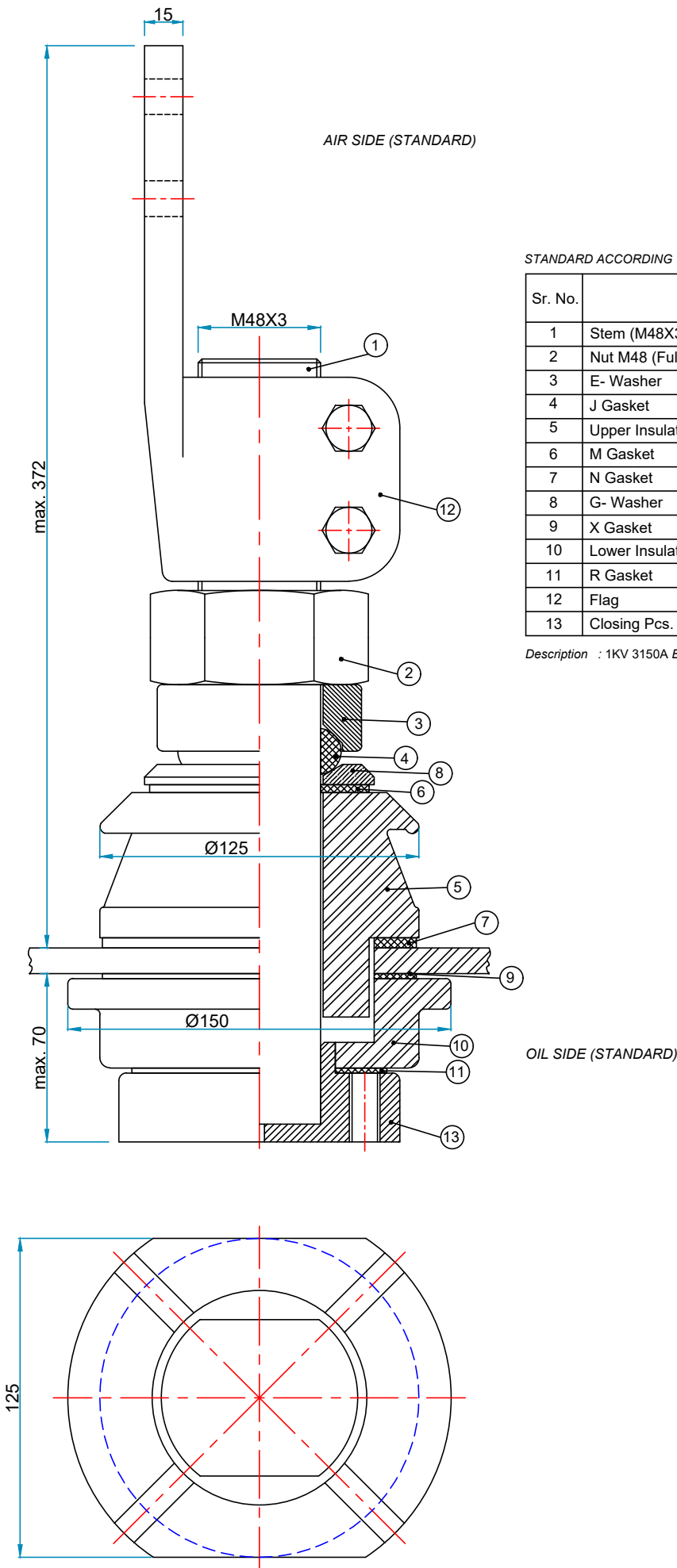




STANDARD ACCORDING TO DIN 42530

Sr. No.	ITEM DESCRIPTION		QTY.
1	Stem M42X290	(Copper)	01
2	Nut M42(Full)	(Brass)	01
3	E- Washer	(Brass)	01
4	J Gasket	(NBR)	01
5	Upper Insulator	(Porcelain)	01
6	M Gasket	(NBR)	01
7	N Gasket	(NBR)	01
8	G- Washer	(Brass)	01
9	X Gasket	(PP)	01
10	Lower Insulator	(Porcelain)	01
11	R Gasket	(PP)	01
12	Flag	(Brass)	01
13	Closing Pcs.	(Brass)	01

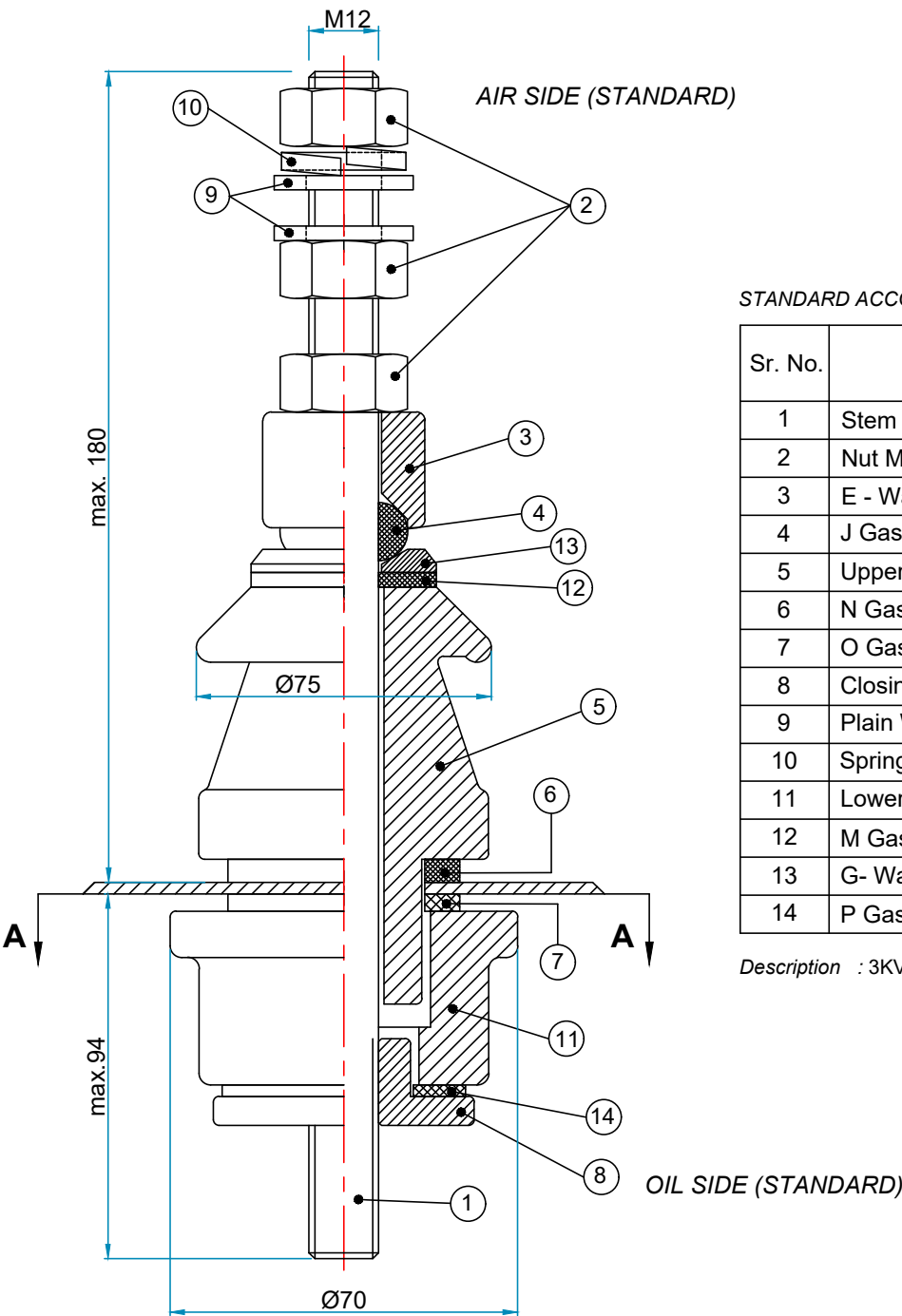
Description : 1KV 2000A Bushing DIN 42530



STANDARD ACCORDING TO DIN 42530

Sr. No.	ITEM DESCRIPTION		QTY.
1	Stem (M48X300)	(Copper)	01
2	Nut M48 (Full)	(Brass)	01
3	E- Washer	(Brass)	01
4	J Gasket	(NBR)	01
5	Upper Insulator	(Porcelain)	01
6	M Gasket	(NBR)	01
7	N Gasket	(NBR)	01
8	G- Washer	(Brass)	01
9	X Gasket	(PP)	01
10	Lower Insulator	(Porcelain)	01
11	R Gasket	(PP)	01
12	Flag	(Brass)	01
13	Closing Pcs.	(Brass)	01

Description : 1KV 3150A Bushing DIN 42530

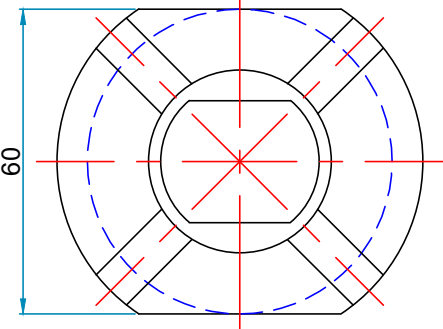


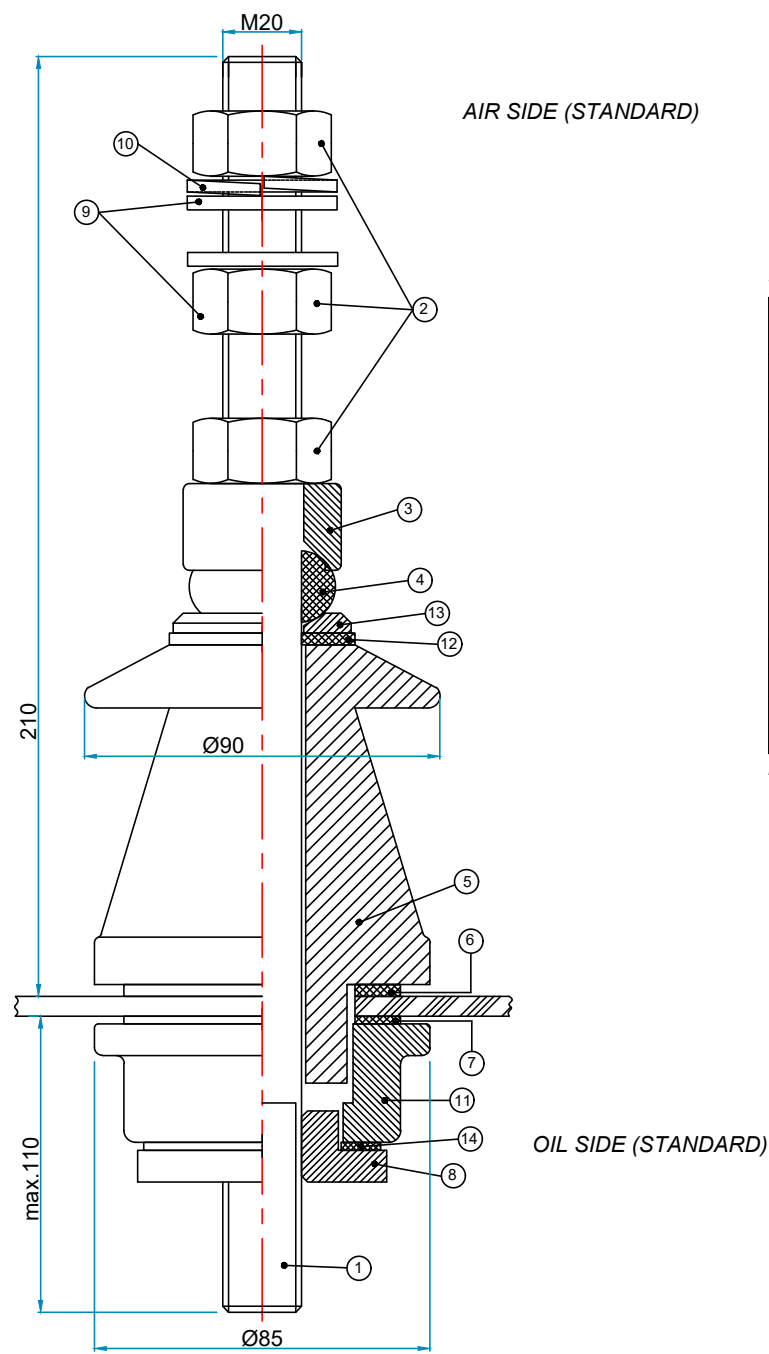
STANDARD ACCORDING TO DIN 42539

Sr. No.	ITEM DESCRIPTION		QTY.
1	Stem (M12x272)	(Brass)	01
2	Nut M12 (Full)	(Brass)	03
3	E - Washer	(Brass)	01
4	J Gasket	(NBR)	01
5	Upper Insulator	(Porcelain)	01
6	N Gasket	(NBR)	01
7	O Gasket	(PP)	01
8	Closing Pcs.	(Brass)	01
9	Plain Washer	(Brass)	02
10	Spring Washer	(SS)	01
11	Lower Insulator	(Porcelain)	01
12	M Gasket	(NBR)	01
13	G- Washer	(Brass)	01
14	P Gasket	(PP)	01

Description : 3KV 250A Bushing DIN 42539

SECTION A-A



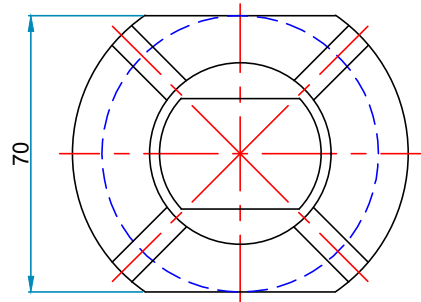


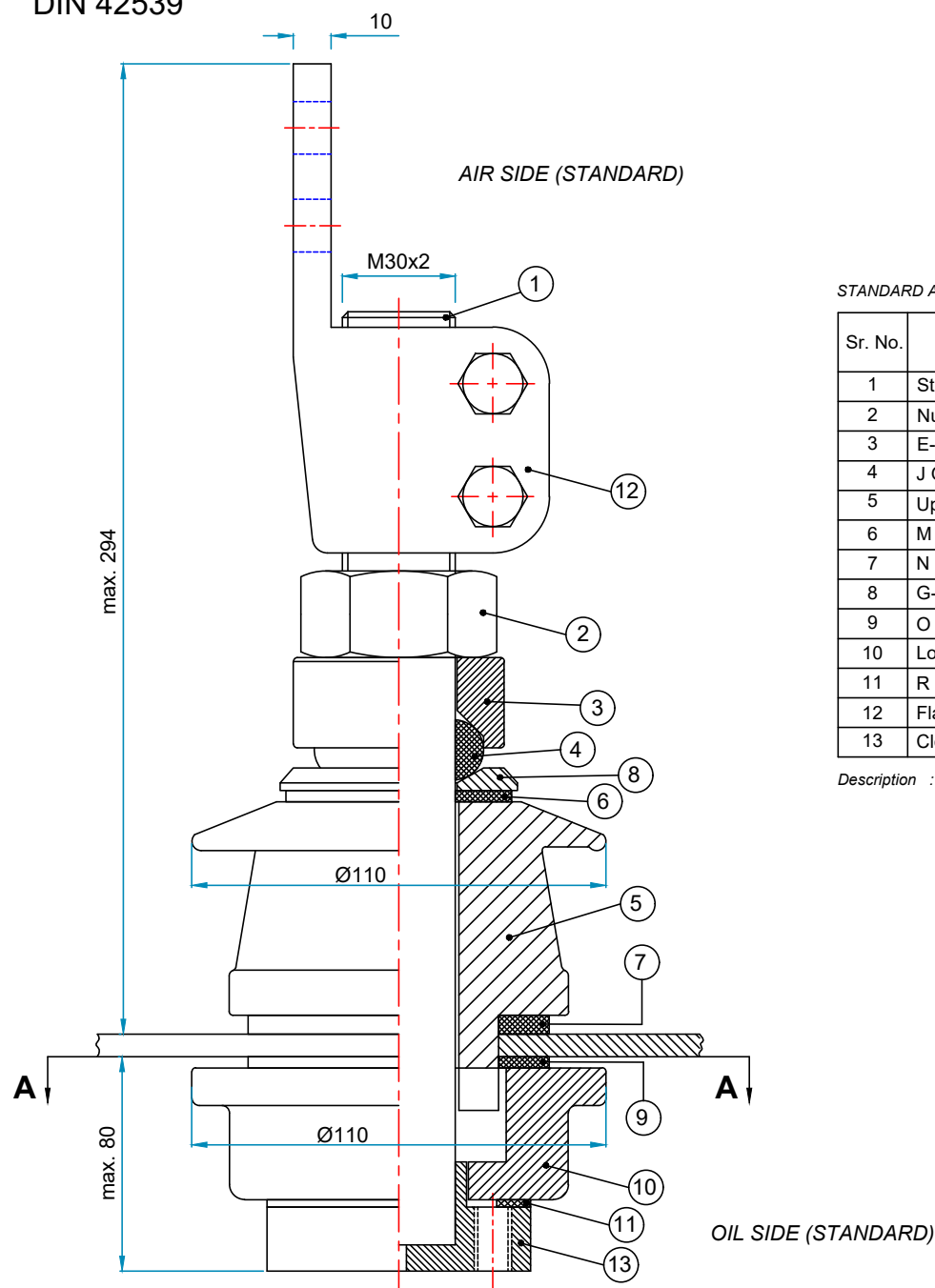
STANDARD ACCORDING TO DIN 42539

Sr. No.	ITEM DESCRIPTION		QTY.
1	Stem (M20x318)	(Copper)	01
2	Nut M20 (Full)	(Brass)	03
3	E - Washer	(Brass)	01
4	J Gasket	(NBR)	01
5	Upper Insulator	(Porcelain)	01
6	N Gasket	(NBR)	01
7	O Gasket	(PP)	01
8	Closing Pcs.	(Brass)	01
9	Plain Washer	(Brass)	02
10	Spring Washer	(SS)	01
11	Lower Insulator	(Porcelain)	01
12	M Gasket	(NBR)	01
13	G - Washer	(Brass)	01
14	P Gasket	(PP)	01

Description : 3KV 630A Bushing DIN 42539

SECTION A-A

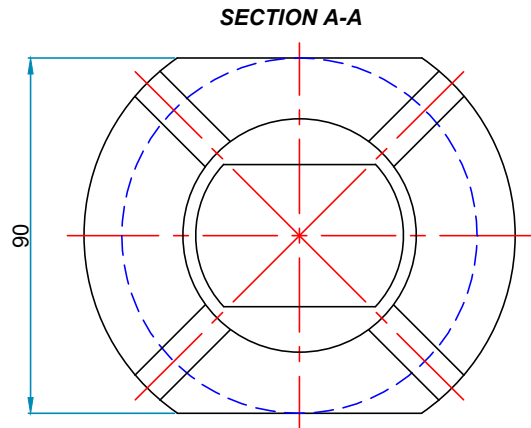


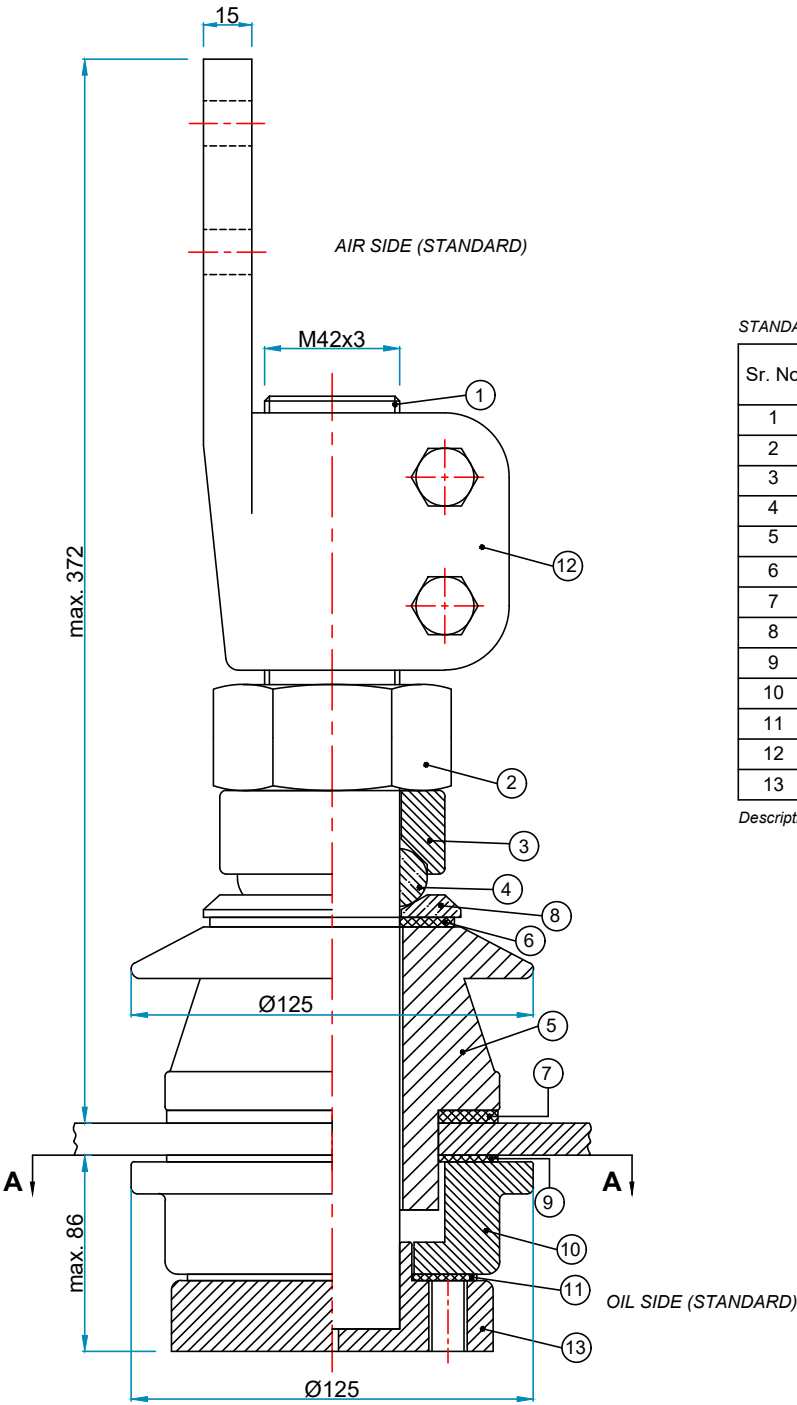


STANDARD ACCORDING TO DIN 42539

Sr. No.	ITEM DESCRIPTION		QTY.
1	Stem (M30x300)	(Copper)	01
2	Nut M30 (Full)	(Brass)	01
3	E- Washer	(Brass)	01
4	J Gasket	(NBR)	01
5	Upper Insulator	(Porcelain)	01
6	M Gasket	(NBR)	01
7	N Gasket	(NBR)	01
8	G- Washer	(Brass)	01
9	O Gasket	(PP)	01
10	Lower Insulator	(Porcelain)	01
11	R Gasket	(PP)	01
12	Flag	(Brass)	01
13	Closing Pcs.	(Brass)	01

Description : 3KV 1000A Bushing DIN 42539

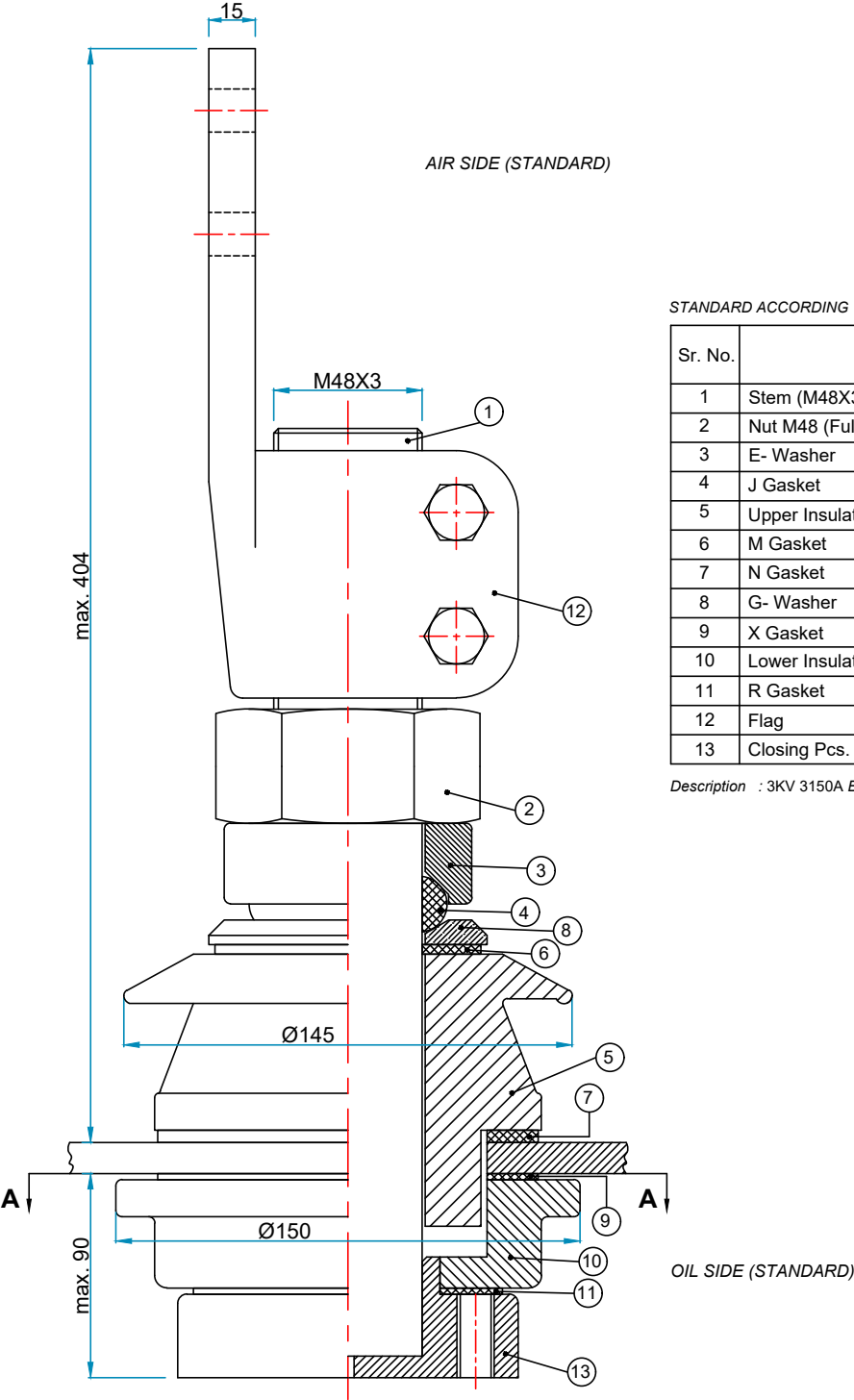




STANDARD ACCORDING TO DIN 42539

Sr. No.	ITEM DESCRIPTION		QTY.
1	Stem M42X340	(Copper)	01
2	Nut M42(Full)	(Brass)	01
3	E- Washer	(Brass)	01
4	J Gasket	(NBR)	01
5	Upper Insulator	(Porcelain)	01
6	M Gasket	(NBR)	01
7	N Gasket	(NBR)	01
8	G- Washer	(Brass)	01
9	X Gasket	(NBR)	01
10	Lower Insulator	(Porcelain)	01
11	R Gasket	(PP)	01
12	Flag	(Brass)	01
13	Closing Pcs.	(Brass)	01

Description : 3KV 2000A Bushing DIN 42539

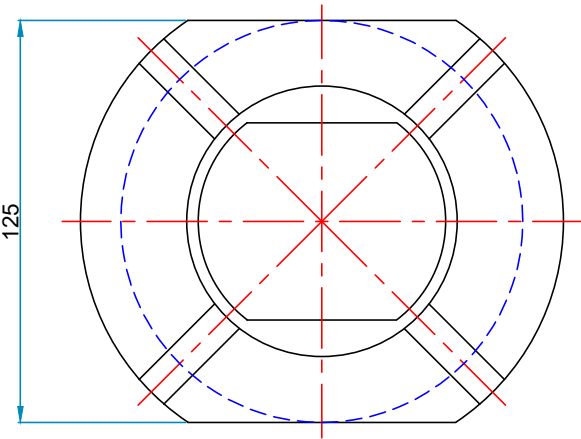


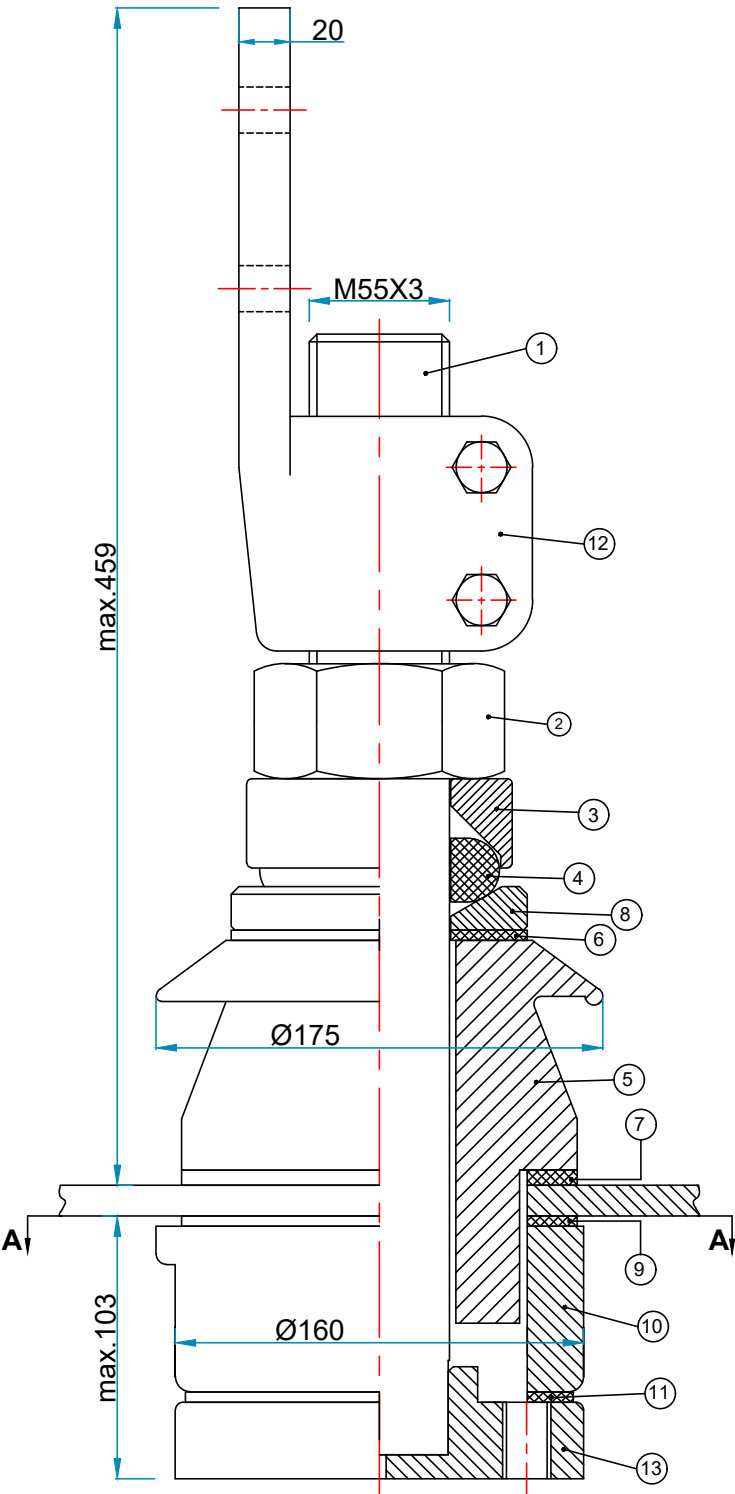
STANDARD ACCORDING TO DIN 42539

Sr. No.	ITEM DESCRIPTION		QTY.
1	Stem (M48X353)	(Copper)	01
2	Nut M48 (Full)	(Brass)	01
3	E- Washer	(Brass)	01
4	J Gasket	(NBR)	01
5	Upper Insulator	(Porcelain)	01
6	M Gasket	(NBR)	01
7	N Gasket	(NBR)	01
8	G- Washer	(Brass)	01
9	X Gasket	(PP)	01
10	Lower Insulator	(Porcelain)	01
11	R Gasket	(PP)	01
12	Flag	(Brass)	01
13	Closing Pcs.	(Brass)	01

Description : 3KV 3150A Bushing DIN 42539

SECTION A-A





STANDARD ACCORDING TO DIN 42539

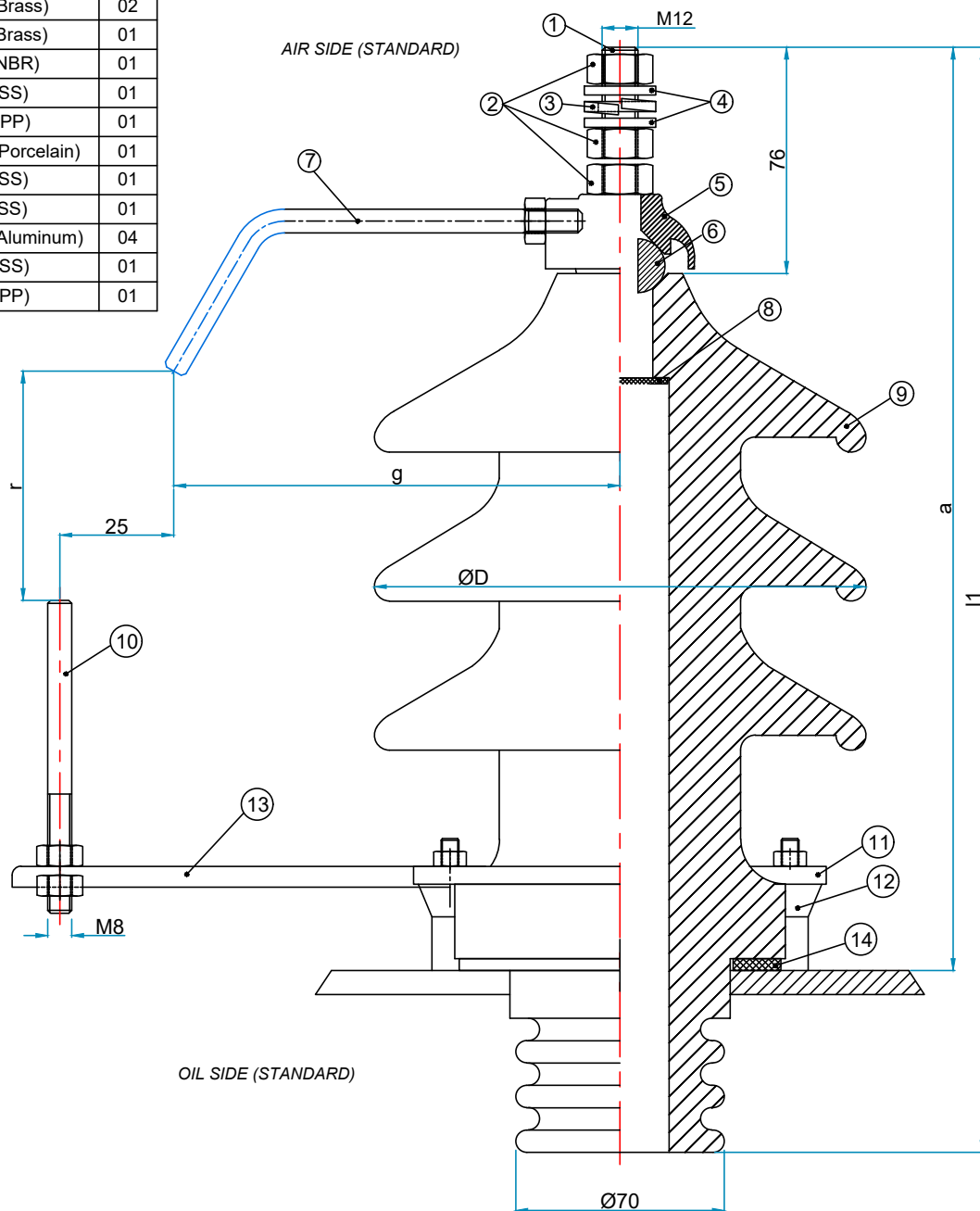
Sr. No.	ITEM DESCRIPTION		QTY.
1	Stem M55X439	(Copper)	01
2	Nut (Full)	(Brass)	01
3	E -Washer	(Brass)	01
4	J Gasket	(NBR)	01
5	Upper Insulator	(Porcelain)	01
6	M Gasket	(NBR)	01
7	N Gasket	(NBR)	01
8	G Washer	(Brass)	01
9	X Gasket	(PP)	02
10	Lower Insulator	(Porcelain)	01
11	X Gasket	(PP)	01
12	Flag	(Brass)	01
13	Closing Pcs.	(Brass)	01

Description : 3KV 4500A Bushing DIN 42539

HV Bushing DIN standard

STANDARD ACCORDING TO DIN 42531

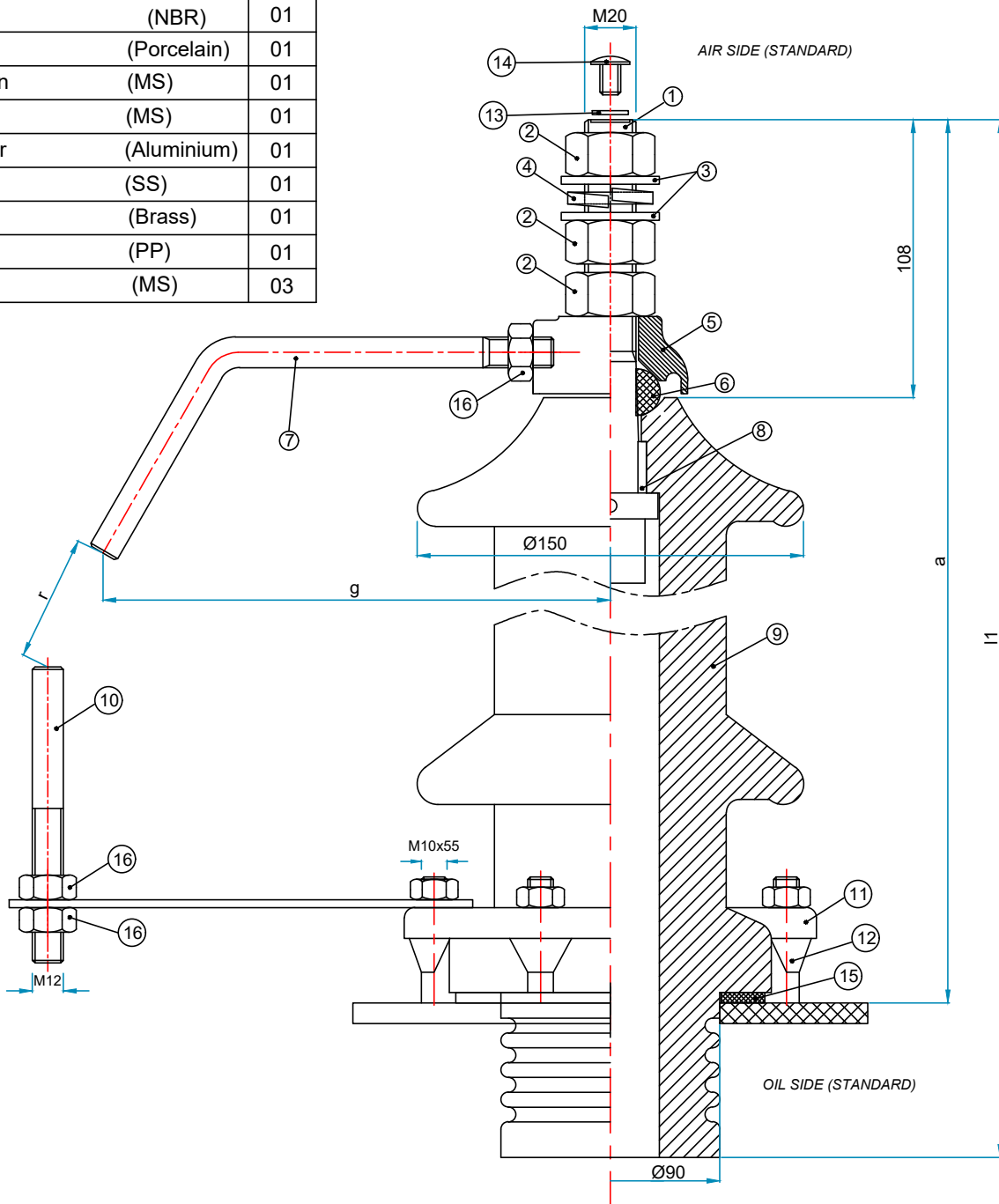
Sr. No.	ITEM DESCRIPTION	QTY.
1	Stem (Brass)	01
2	Nut (Full) (Brass)	03
3	Spring Washer (SS)	01
4	Plain Washer (Brass)	02
5	E - Cap (Brass)	01
6	J Gasket (NBR)	01
7	Upper Arcing Horn (SS)	01
8	O Gasket (PP)	01
9	Insulator (Porcelain)	01
10	Lower Arcing Horn (SS)	01
11	Clamping Ring (SS)	01
12	Clamping Member (Aluminum)	04
13	V - Clamp (SS)	01
14	N Gasket (PP)	01



Type	Description	a	r	g	l1	Leaf Dia. (D)
10NF 250	10NF 250A BUSHING DIN 42532	310	85	150	371	150
20NF 250	20NF 250A BUSHING DIN 42532	385	155	150	461	165
30NF 250	30NF 250A BUSHING DIN 42532	485	220	170	561	180

STANDARD ACCORDING TO DIN 42532

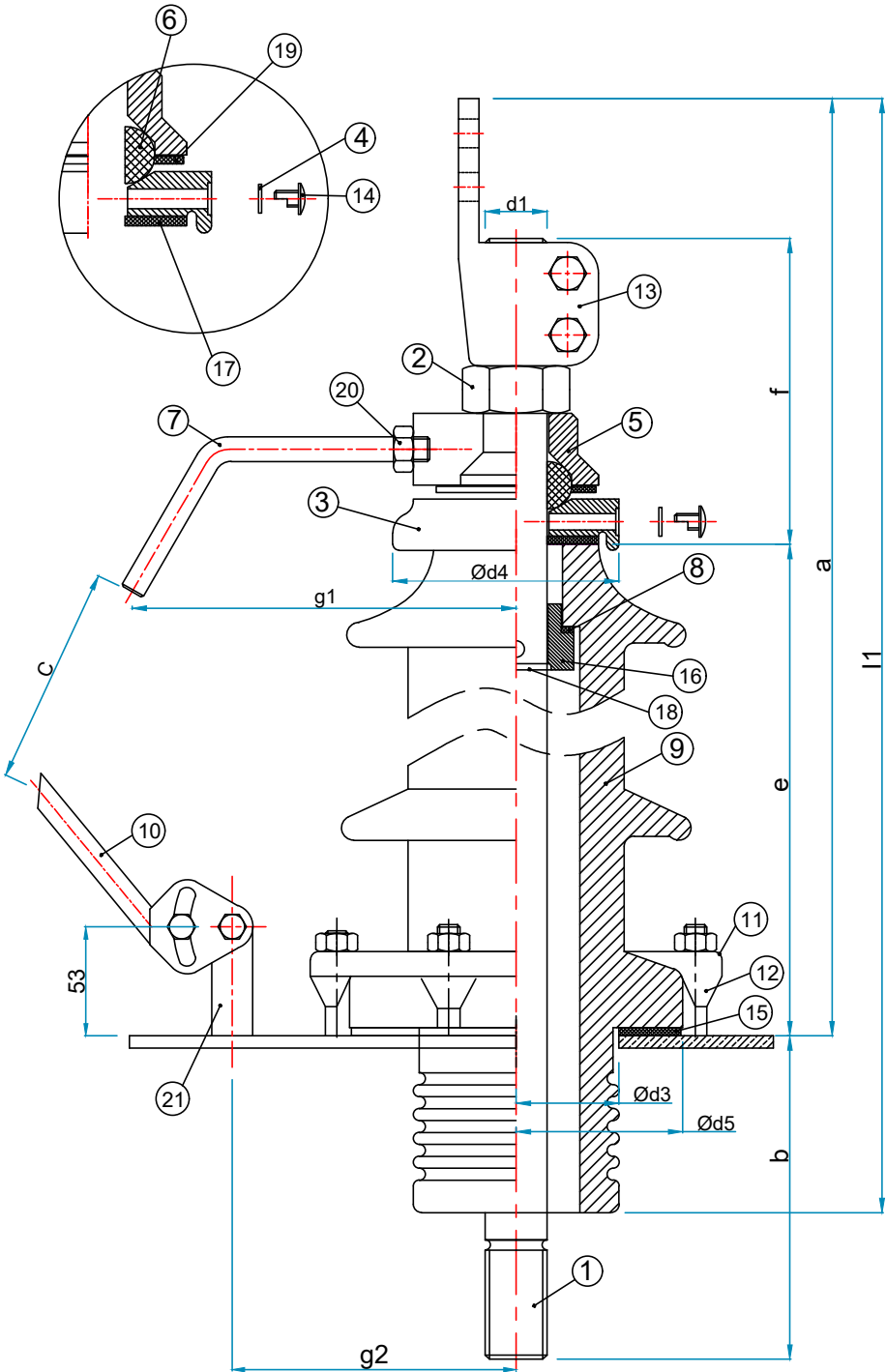
Sr. No.	ITEM DESCRIPTION	QTY.
1	Stem M20 (Copper)	01
2	Nut (Full) (Brass)	03
3	Plain Washer (Brass)	02
4	Spring Washer (SS)	01
5	E - Cap (Brass)	01
6	J Gasket (NBR)	01
7	Upper Arcing Horn (MS)	01
8	O Gasket (NBR)	01
9	Insulator (Porcelain)	01
10	Lower Arcing Horn (MS)	01
11	Clamping Ring (MS)	01
12	Clamping Member (Aluminium)	01
13	Washer (SS)	01
14	Screw M8 (Brass)	01
15	N Gasket (PP)	01
16	Nut M12 (MS)	03



<i>Type</i>	<i>Description</i>	<i>a</i>	<i>r</i>	<i>g</i>	<i>l1</i>	<i>Leaf Dia. (D)</i>
10NF 630	10NF 630A BUSHING DIN 42532	342	85	180	403	150
20NF 630	20NF 630A BUSHING DIN 42532	417	155	180	493	165
30NF 630	30NF 630A BUSHING DIN 42532	522	222	200	618	180

STANDARD ACCORDING TO DIN 42533

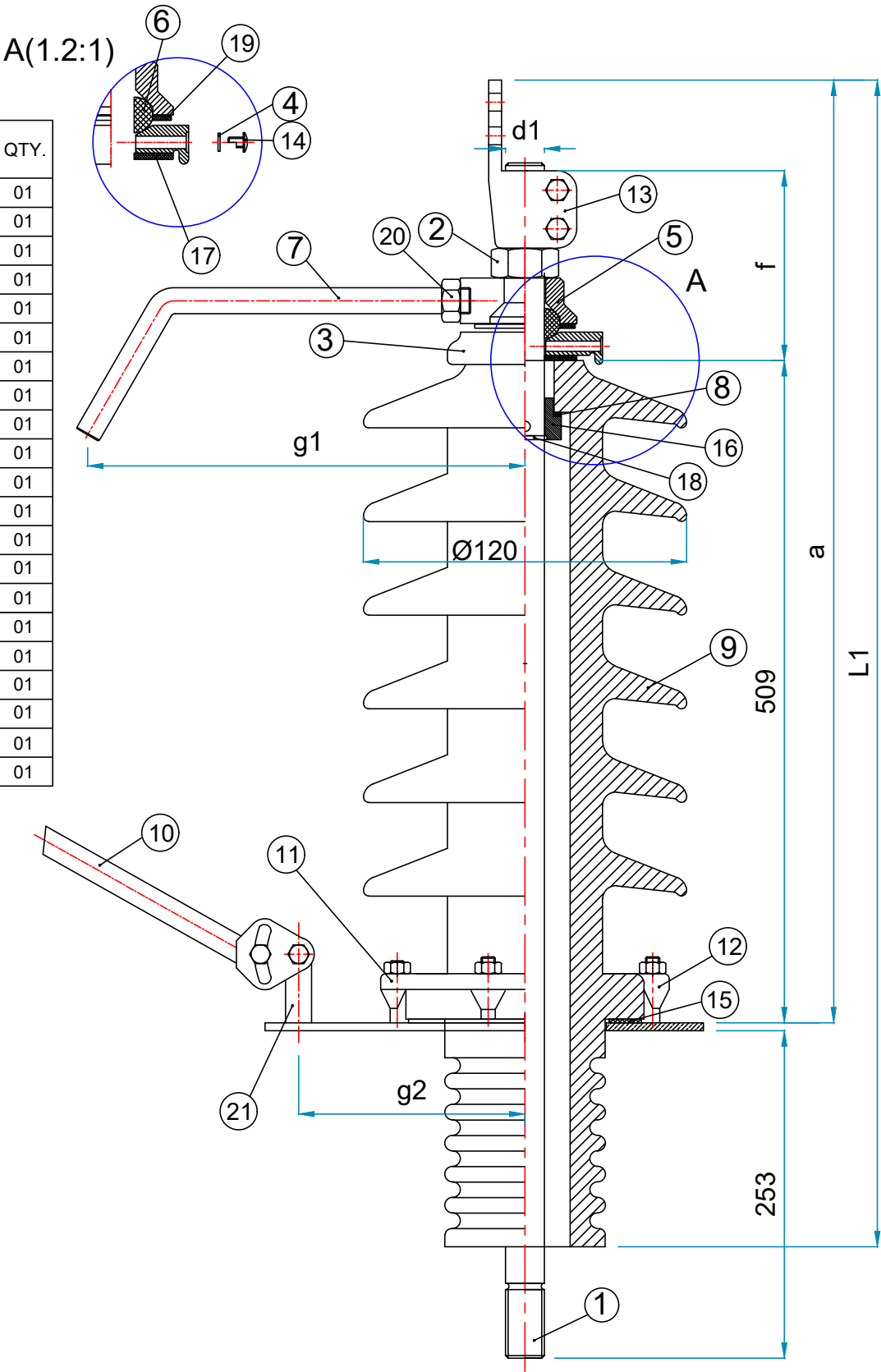
Sr. No.	ITEM DESCRIPTION		QTY.
1	Stem	(Cu./Brass)	01
2	Nut	(Brass)	01
3	Plate	(Brass)	01
4	Gasket	(PP)	01
5	E - Cap	(Brass)	01
6	J Gasket	(NBR)	01
7	Upper Arcing Horn (MS)		01
8	O Gasket	(NBR)	01
9	Insulator	(Porcelain)	01
10	Lower Arcing Horn (MS)		01
11	Clamping Ring	(Aluminum)	01
12	Clamping Member	(Aluminum)	01
13	Flag	(Flag)	01
14	Screw	(Brass)	01
15	N Gasket	(PP)	01
16	Compressing Ring	(Brass)	01
17	M Gasket	(NBR)	01
18	Ring	(Cu./Brass)	01
19	Contact Washer	(Copper)	01
20	Nut	(MS)	01
21	Arcing Horn Support (MS)		01



Type	Description	a	b	c	d1	Ød3	Ød4	Ød5	e	f	g1	g2	l1
10NF 1000	10NF 1000A Bushing DIN	455	158	85	M30x2	110	100	163	239	148	225	138	541
20NF 1000	20NF 1000A Bushing DIN	530	168	155					314		285		626
30NF 1000	30NF 1000A Bushing DIN	635	198	220					419				756
10NF 2000	10NF 2000A Bushing DIN	530	158	85	M42x3	135	120	183	239	178	230	148	616
20NF 2000	20NF 2000A Bushing DIN	605	168	155					314		290		701
30NF 2000	30NF 2000A Bushing DIN	710	198	220					419				831
10NF 3150	10NF 3150A Bushing DIN	560	158	85	M48x3	135	120	183	239	183	235	148	646
20NF 3150	20NF 3150A Bushing DIN	635	168	155					314		295		731
30NF 3150	30NF 3150A Bushing DIN	740	198	220					419				861

STANDARD ACCORDING TO DIN 42532

Sr. No.	ITEM DESCRIPTION		QTY.
1	Stem	(Cu./Brass)	01
2	Nut	(Brass)	01
3	Plate	(Brass)	01
4	Gasket	(PP)	01
5	E - Cap	(Brass)	01
6	J Gasket	(NBR)	01
7	Upper Arcing Horn	(MS)	01
8	O Gasket	(NBR)	01
9	Insulator	(Porcelain)	01
10	Lower Arcing Horn	(MS)	01
11	Clamping Ring	(Aluminum)	01
12	Clamping Member	(Aluminum)	01
13	Flag	(Brass)	01
14	Screw	(Brass)	01
15	N Gasket	(PP)	01
16	Compressing Ring	(Brass)	01
17	M Gasket	(NBR)	01
18	Ring	(Cu./Brass)	01
19	Contact Washer	(Copper)	01
20	Nut	(MS)	01
21	Arcing Horn Support	(MS)	01



Type	Description	a	d1	f	g1	g2	L1
52 kv 1000	52 KV 1000A Bushing DIN	725	M30x2	148	350	175	901
52 kv 2000	52 KV 2000A Bushing DIN	800	M42x3	178			976
52 kv 3150	52 KV 3150A Bushing DIN	830	M48x3	183	355	180	1006

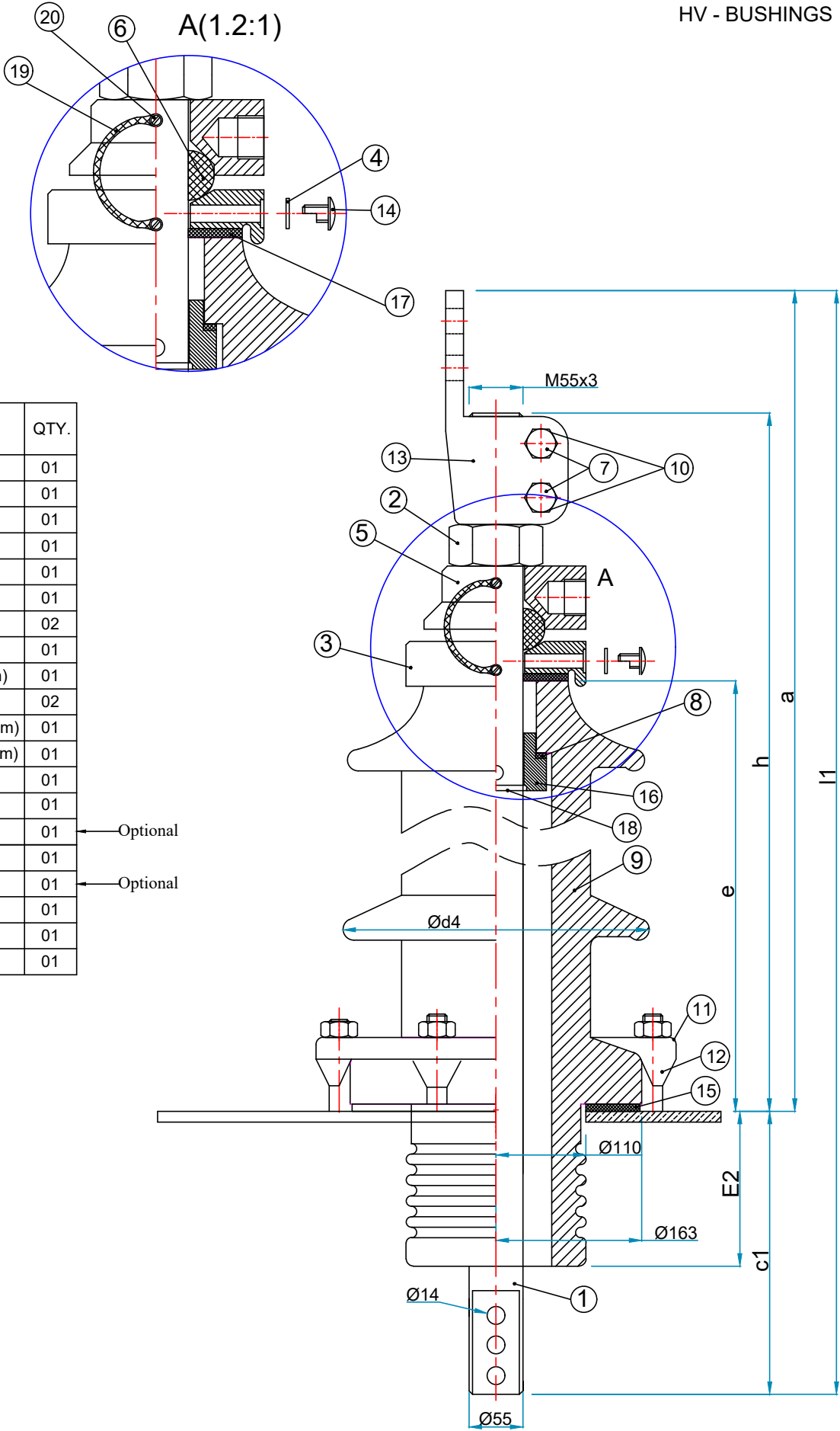
4500A
12-24-36 KV

HV - BUSHINGS

Sr. No.	ITEM DESCRIPTION		QTY.
1	Stem	(Brass)	01
2	Nut (Full) M55	(Brass)	01
3	Plate	(Brass)	01
4	Gasket	(PP)	01
5	E - Cap	(Brass)	01
6	J Gasket	(NBR)	01
7	Bolt	(SS)	02
8	O Gasket	(NBR)	01
9	Insulator	(Porcelain)	01
10	Plain Washer M10	(SS)	02
11	Clamping Ring	(Aluminium)	01
12	Clamping Member	(Aluminium)	01
13	Flag	(Brass)	01
14	Screw M6	(Brass)	01
15	N Gasket	(PP)	01
16	Compressing Ring	(Brass)	01
17	M Gasket	(NBR)	01
18	Ring	(Copper)	01
19	Arc Cable	(Copper)	01
20	Screw	(Brass)	01

Optional

Optional



Type	Description	a	c1	Ød4	e	E2	h	l1	Creepage
10 F 4500	12 KV 4500A Bushing	600	210	190	239	86	449	810	290
20 F 4500	24 KV 4500A Bushing	675	220	210	314	96	524	895	440
30 F 4500	36 KV 4500A Bushing	780	245	230	419	121	629	1025	680