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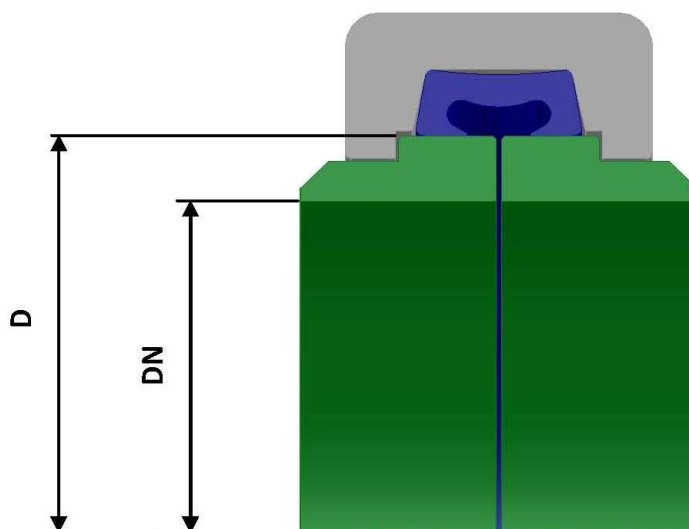
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STANDARD COLLARS (85bar)



SINGLE LAYER STEEL COLLARS MACHINED FROM S355JR SEAMLESS TUBE

CODE	ID	DESCRIPTION	INCHES	DN/D (mm)	WEIGHT (Kg)
S000225360	SC20	COLL SC20 L35	2"	50/60	0.16
K000908484	SC25	COLL SC25 L35	2.5"	50/73	0.49
S000225359	SC30	COLL SC30 L40	3"	75/89	0.63
S000225358	SC34	COLL SC34 L35	3.25"	75/97	0.67
S2001034	SC40	COLL SC40 L35	4"	100/115	0.85
S000215974	SC45	COLL SC45 L35	4.5"	100/127	0.96
S2001033	SC50	COLL SC50 L35	5"	125/142	0.94
S000215251	SC55	COLL SC55 L35	5.5"	125/148	1.04
S000052471	SC60	COLL SC60 L35	6"	150/169	1.27
S000214115	SC65	COLL SC65 L35	6.5"	150/178	1.55
S000214994	SC70	COLL SC70 L35	7"	175/200	1.35

others sizes available on request

DOUBLE LAYER COLLARS WITH CHROMIUM CARBIDE CAST INSERT (FOR STRAIGHT PIPES)

CODE	ID	DESCRIPTION	INCHES	DN/D (mm)	WEIGHT (Kg)
S1037608	SC45	COLL ASS SC45 L40	4.5"	100/127	1.9
S2002165	SC50	COLL ASS SC50 L40	5"	112/142	1.7
S1038315	SC55	COLL ASS SC55 L40	5.5"	125/148	1.6
S2038786	SC65	COLL ASS SC65 L40	6.5"	150/178	2.3

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FIXED LEVER COUPLINGS FOR STANDARD COLLARS-FORGED STEEL


CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
K000908333	COUPLING FC20 LEVER	2"	0.95	85
K000908332	COUPLING FC25 LEVER	2.5"	1.5	85
K000223660	COUPLING FC30 LEVER	3"	2.2	85
K000908331	COUPLING FC30 LEVER ING	3"	2.2	85
S2022801	COUPLING FC34 LEVER	3.25"	3.2	85
S2040456	COUPLING FC34 LEVER ING	3.25"	3.2	85
K2034503	COUPLING FC40 LEVER	4"	3.5	85
S2022802	COUPLING FC45 LEVER	4.5"	3.8	85
S2022803	COUPLING FC45 LEVER ING	4.5"	3.8	85
S2022804	COUPLING FC50 LEVER	5"	4.8	85
S2022805	COUPLING FC55 LEVER	5.5"	4	85
S2040457	COUPLING FC55 LEVER ING	5.5"	4	85
S2032862	COUPLING FC60 LEVER	6"	5.6	85

STANDARD FINISHING IN GREY PRIMER, ON REQUEST HOT ZINC PLATING

FIXED LEVER ALUMINIUM COUPLINGS FOR STANDARD COLLARS

CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
S2040461	COUPLING AL45 LEVER	4.5"	1.9	85
S2022809	COUPLING AL55 LEVER	5.5"	2.35	85



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ADJUSTABLE LEVER COUPLINGS FOR STANDARD COLLARS-FORGED STEEL


CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
S2022806	COUPLING AC40 LEVER	4"	3.8	85
S2022807	COUPLING AC45 LEVER	4.5"	5	85
K000058992	COUPLING AC50 LEVER	5"	5.5	85
K000207948	COUPLING AC50 LEVER ING	5"	5.5	85
S2022808	COUPLING AC55 LEVER	5.5"	4.5	85
S2023065	COUPLING AC55 LEVER ING	5.5"	4.5	85

STANDARD FINISHING IN GREY PRIMER, ON REQUEST HOT ZINC PLATING

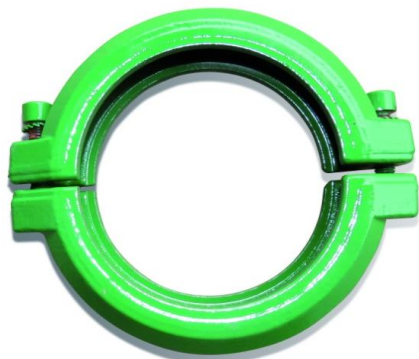
ADJUSTABLE BOLT COUPLINGS FOR STANDARD COLLARS-FORGED STEEL


CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
K000223444	COUPLING AC40 1BOLT	4"	3.3	85
K000227592	COUPLING AC45 1BOLT	4.5"	4.5	85
K000226767	COUPLING AC45 1BOLT ING	4.5"	4.5	85
K000227198	COUPLING AC55 1BOLT	5.5"	4	85
K000227200	COUPLING AC55 1BOLT ING	5.5"	4	85

STANDARD FINISHING IN GREY PRIMER, ON REQUEST HOT ZINC PLATING

TWO BOLTS COUPLINGS FOR STANDARD COLLARS-FORGED STEEL

CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
K000231427	COUPLING BC45 2BOLT	4.5"	3.5	85
S2022776	COUPLING BC45 2BOLT ING	4.5"	3.5	85
K000221985	COUPLING BC55 2BOLT	5.5"	3.8	85



STANDARD FINISHING IN GREY PRIMER, ON REQUEST HOT ZINC PLATING

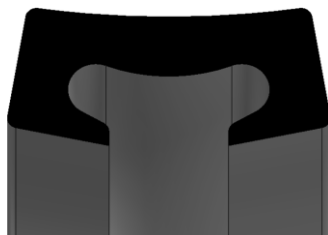
SWIVEL COUPLINGS WITH FIXING PLATE


CUSTOM FIXING PLATES ON REQUEST

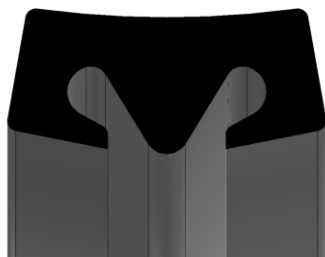
COUPLINGS ACCESSORIES

K000902331	GREASE NIPPLE M10x1	K1019738	SAFETY PIN $\varnothing$ 6.5x70
			

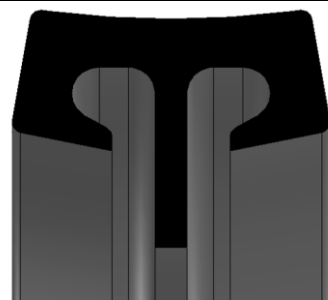
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GU GASKETS


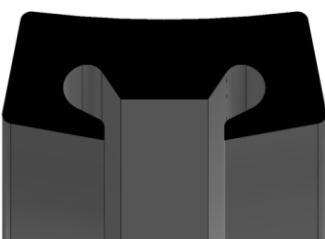
CODE	DESCRIPTION	MATERIAL	HARDNESS (shore)
K000908336	GASKET GU20	EPDM75	75
K000908335	GASKET GU25	EPDM75	75
K000908334	GASKET GU30	EPDM75	75
K000908582	GASKET GU34	EPDM75	75
K000200312	GASKET GU40	EPDM75	75
K2032322	GASKET GU45	EPDM75	75
S2033711	GASKET GU50	EPDM75	75
K2032324	GASKET GU55	EPDM75	75
K000052541	GASKET GU60	EPDM75	75
K000214435	GASKET GU65	EPDM75	75
K000202462	GASKET GU70	EPDM75	75
K000201920	GASKET GU80	EPDM75	75

GUV GASKETS


CODE	DESCRIPTION	MATERIAL	HARDNESS (shore)
K2032325	GASKET GUV45	EPDM75	75
K2032326	GASKET GUV55	EPDM75	75

GUT GASKETS


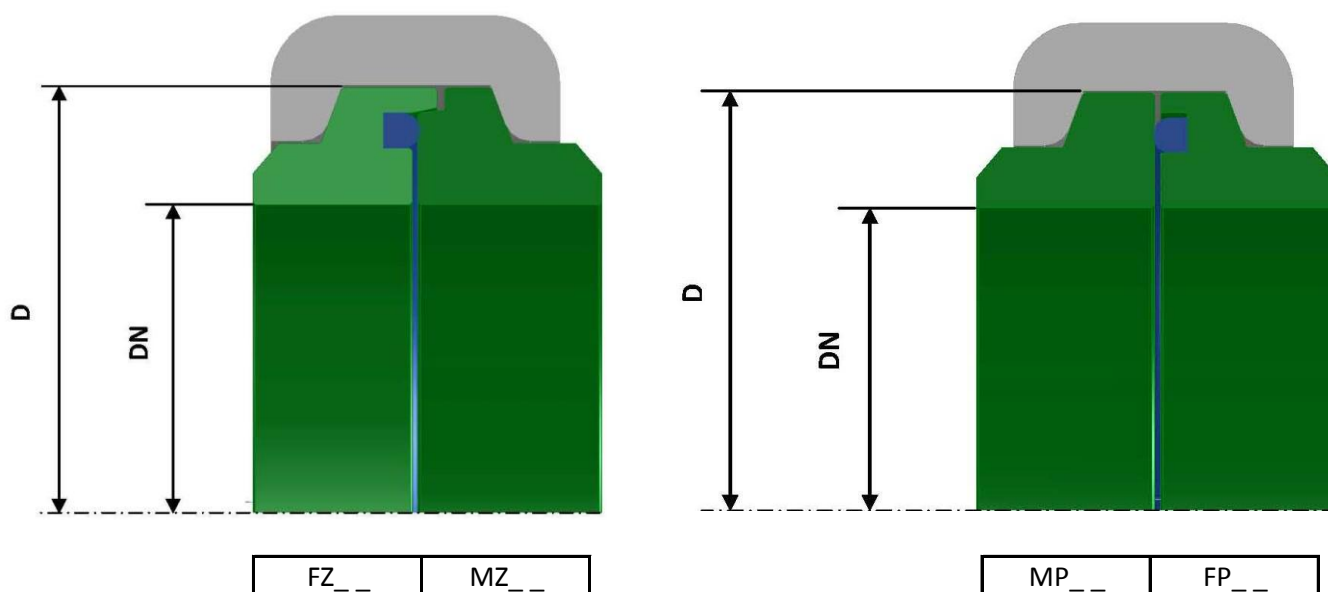
CODE	DESCRIPTION	MATERIAL	HARDNESS (shore)
K2029124	GASKET GUT45	EPDM75	75
K1032009	GASKET GUT55	EPDM75	75

GUR GASKETS


CODE	DESCRIPTION	MATERIAL	HARDNESS (shore)
K2033281	GASKET GUR45	EPDM75	75
K2033282	GASKET GUR55	EPDM75	75

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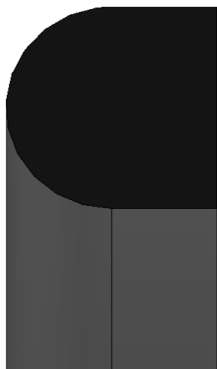
MALE/FEMALE HIGH PRESSURE COLLARS CIFA-SERMAC (130-200bar)

SINGLE LAYER STEEL COLLARS MACHINED FROM S355JR SEAMLESS TUBE

CODE	ID	DESCRIPTION	INCHES	DN/D (mm)	WEIGHT (Kg)
S2001023	FZ40	COLL FZ40 L35	4"	100/146	1.2
S000223076	FZ50	COLL FZ50 L35	5"	125/168	1.8
S000223074	FZ60	COLL FZ60 L35	6"	150/199	2.2
S000223072	FZ70	COLL FZ70 L35	7"	180/227	2.7
S2001024	MZ40	COLL MZ40 L35	4"	100/146	1.2
S000223077	MZ50	COLL MZ50 L35	5"	125/168	1.9
S000223075	MZ60	COLL MZ60 L35	6"	150/199	2.1
S000223071	MZ70	COLL MZ70 L35	7"	180/227	2.7
S2019039	FP40	COLL FP40 L35	4"	100/146	1.5
S000234395	FP50	COLL FP50 L35	5"	125/168	1.9
S1015711.01	FP60	COLL FP60 L35	6"	150/199	3.2
S2022758	MP40	COLL MP40 L35	4"	100/146	1.5
S000234396	MP50	COLL MP50 L35	5"	125/168	2
S1015708.03	MP60	COLL MP60 L42	6"	150/199	3.5

COUPLINGS FOR HIGH PRESSURE COLLARS CIFA-SERMAC


FIXED LEVER				
CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
K000908449	COUPLING FC3Z LEVER	3"	3.2	130
ADJUSTABLE LEVER				
CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
S2039605	COUPLING AC4Z LEVER	4"	3.8	130
S2022811	COUPLING AC5Z LEVER	5"	4.5	130
S2006546	COUPLING AC5Z LEVER PIA	5"	5.3	130
S2022812	COUPLING AC6Z LEVER	6"	8.5	130
S2022813	COUPLING AC7Z LEVER	7"	8.5	130
ADJUSTABLE ONE BOLT				
CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
S2023070	COUPLING AC5Z 1BOLT	5"	4	130
S2040036	COUPLING AC6Z 1BOLT	6"	7.5	130
TWO BOLTS				
CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
S2022810	COUPLING BC4Z 2BOLT	4"	3.5	130
S2011871	COUPLING BC5Z 2BOLT	5"	3.8	130
S2004849	COUPLING BC5Z 2BOLT PIA	5"	4.6	130
WEDGE				
CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
S2040562	COUPLING AC5Z WEDGE	5"	4.5	130
S2038086	COUPLING AC6Z WEDGE	6"	8.4	130
S2040877	COUPLING AC7Z WEDGE	7"	8.4	130
TWO BOLTS HIGH PRESSURE				
CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
S2011872	COUPLING AP5Z 2BOLT	5"	5.5	200

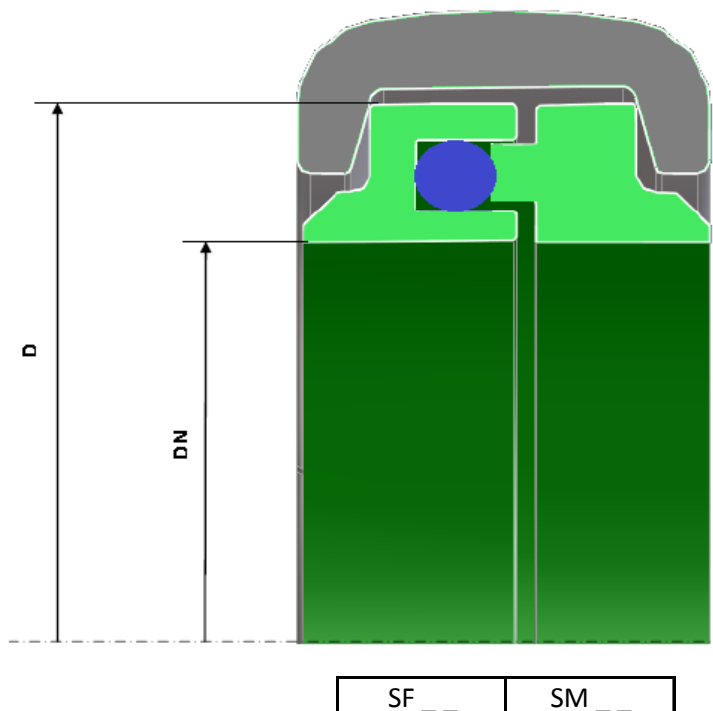
STANDARD FINISHING IN GREY PRIMER, ON REQUEST HOT ZINC PLATING

GASKETS FOR HIGH PRESSURE COLLARS CIFA-SERMAC


CODE	DESCRIPTION	MATERIAL	HARDNESS (shore)
K2032320	GASKET OR4Z	EPDM75	75
K000907859	GASKET OR5Z	EPDM75	75
K000907855	GASKET OR6Z	EPDM75	75
K000907857	GASKET OR7Z	EPDM75	75

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MALE/FEMALE HIGH PRESSURE COLLARS SCHWING (130 bar)

SINGLE LAYER STEEL COLLARS MACHINED FROM S355JR SEAMLESS TUBE

CODE	ID	DESCRIPTION	INCHES	DN/D (mm)	WEIGHT (Kg)
S2019911	SF40	COLL SF40 L32	4"	100/148	1.1
S2040000	SF50	COLL SF50 L32	5"	125/166	1.3
S2024404	SF60	COLL SF60 L47	6"	150/194	3
S2021097	SF70	COLL SF70 L40	7"	180/225	2.5
S2019909	SM40	COLL SM40 L32	4"	100/148	1.4
S2040002	SM50	COLL SM50 L33	5"	125/166	1.6
S2037678	SM60	COLL SM60 L50	6"	150/194	3.6
S2021098	SM70	COLL SM70 L47.5	7"	180/225	3.3

COUPLINGS FOR HIGH PRESSURE SCHWING COLLARS

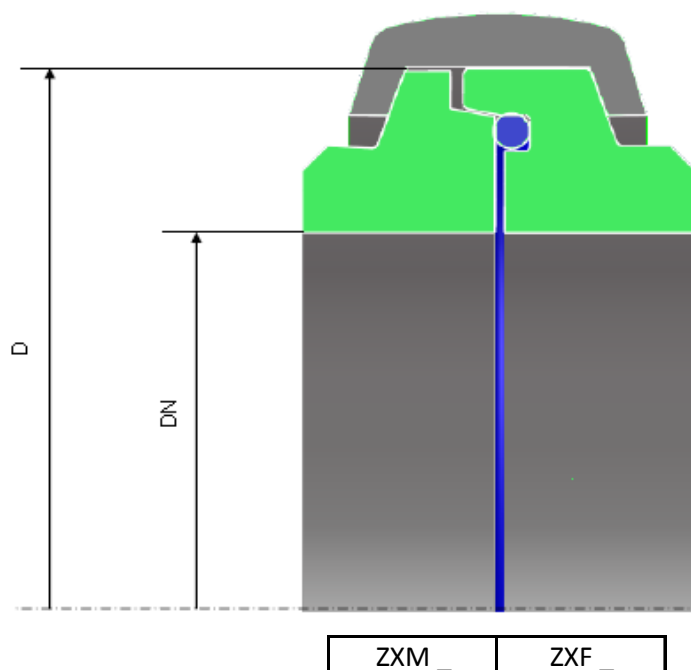

FIXED LEVER				
CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
K2034504	COUPLING F4SW LEVER	4"	4.8	130
K2034506	COUPLING F5SW LEVER	5"	6	130
S2040583	COUPLING F6SW LEVER	6"	7.9	130
S2040584	COUPLING F7SW LEVER	7"	7.9	130
K2034508	COUPLING F8SW LEVER	8"	10.6	130
ADJUSTABLE LEVER				
CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
S2040589	COUPLING A4SW LEVER	4"	5.8	130
S2040590	COUPLING A5SW LEVER	5"	6.4	130
S2036845	COUPLING A6SW LEVER	6"	7.4	130
WEDGE				
CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
S2040394	COUPLING A4SW WEDGE	4"	5.9	130
S2033579	COUPLING A5SW WEDGE	5"	6.5	130
S2039486	COUPLING A6SW WEDGE	6"	6.4	130

STANDARD FINISHING IN GREY PRIMER, ON REQUEST HOT ZINC PLATING

GASKETS FOR HIGH PRESSURE SCHWING COLLARS


CODE	DESCRIPTION	MATERIAL	HARDNESS (shore)
K2040592	GASKET OR4SW	EPDM75	75
K2034862	GASKET OR5SW	EPDM75	75
K2034863	GASKET OR6SW	EPDM75	75
K2040593	GASKET OR7SW	EPDM75	75
K2040594	GASKET OR8SW	EPDM75	75

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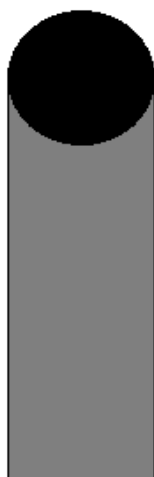
MALE/FEMALE HIGH PRESSURE COLLARS PUTZMEISTER ZX (130-200 bar)

SINGLE LAYER STEEL COLLARS MACHINED FROM S355JR SEAMLESS TUBE

CODE	ID	DESCRIPTION	INCHES	DN/D (mm)	WEIGHT (Kg)
S2037830	ZXM5	COLL ZXM5 L40	5"	125/175	2.4
S2015219	ZXM6	COLL ZXM6 L40	6"	150/205	2.65
S2037826	ZXF5	COLL ZXF5 L40	5"	125/175	2.75
S2040603	ZXF6	COLL ZXF6 L40	6"	150/205	3

COUPLINGS FOR HIGH PRESSURE PUTZMEISTER ZX COLLARS

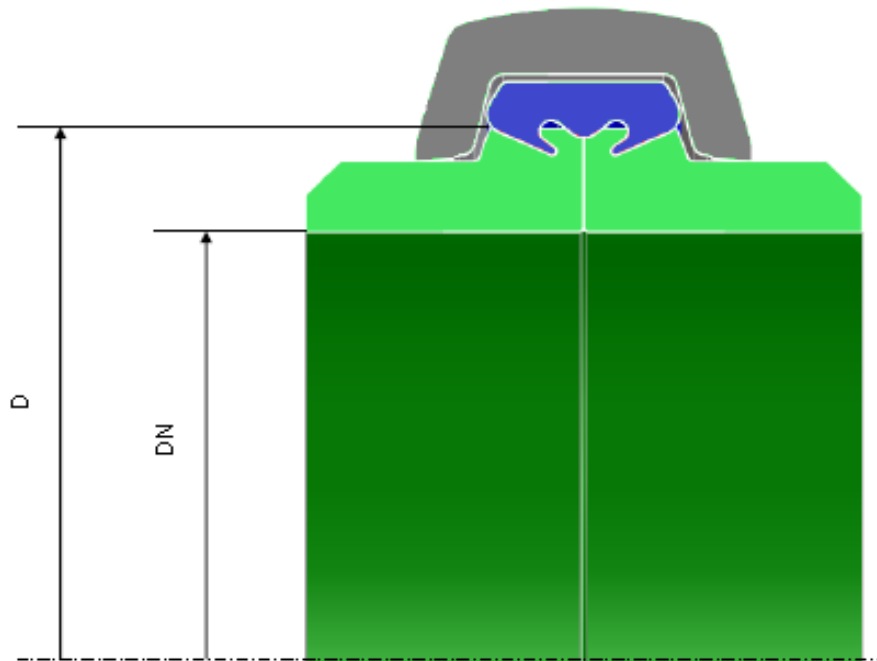

ADJUSTABLE LEVER				
CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
S2039576	COUPLING A6ZX LEVER	6"	8	130
ADJUSTABLE ONE BOLT				
CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
K2034510	COUPLING A5ZX 1BOLT	5"	5.25	130
WEDGE				
CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
S2039577	COUPLING A6ZX WEDGE	6"	7.8	130
HIGH PRESSURE TWO BOLTS				
CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
S2022770	COUPLING B5ZX 2BOLT	5"	5.5	200

STANDARD FINISHING IN GREY PRIMER, ON REQUEST HOT ZINC PLATING

GASKETS FOR HIGH PRESSURE PUTZMEISTER ZX COLLARS


CODE	DESCRIPTION	MATERIAL	HARDNESS (shore)
S2040878	GASKET OR5 ZX	EPDM75	75
S2040879	GASKET OR6 ZX	EPDM75	75

HIGH PRESSURE COLLARS HEAVY DUTY (130 bar)



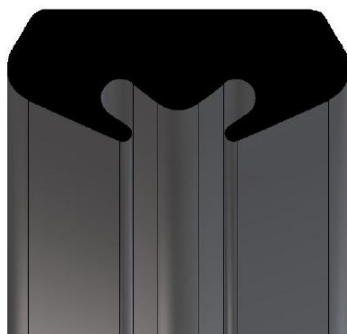
SINGLE LAYER STEEL COLLARS MACHINED FROM S355JR SEAMLESS TUBE

CODE	ID	DESCRIPTION	INCHES	DN/D (mm)	WEIGHT (Kg)
S2031019	HD20	COLL HD20 L35	2"	50/77.7	0.57
S2031020	HD25	COLL HD25 L35	2.5"	65/82.5	0.4
S2018117	HD30	COLL HD30 L40	3"	75/106.2	1.04
S2018078	HD40	COLL HD40 L40	4"	100/131.6	1.34
S2018064	HD50	COLL HD50 L40	5"	125/157	1.59
S2019477	HD60	COLL HD60 L40	6"	150/182.9	1.8

COUPLINGS FOR HIGH PRESSURE HEAVY DUTY COLLARS


FIXED LEVER				
CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
S2040696	COUPLING HD20 LEVER FC	2"	1.5	130
S2040697	COUPLING HD25 LEVER FC	2.5"	2	130
S2040698	COUPLING HD30 LEVER FC	3"	2.3	130
S2032860	COUPLING HD40 LEVER FC	4"	4.4	130
S2031992	COUPLING HD50 LEVER FC	5"	4	130
ADJUSTABLE LEVER				
CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
S2040699	COUPLING HD40 LEVER AC	4"	4	130
S2036856	COUPLING HD50 LEVER AC	5"	4.3	130
ADJUSTABLE ONE BOLT				
CODE	DESCRIPTION	INCHES	WEIGHT (Kg)	WORKING PRESSURE (bar)
S2040880	COUPLING HD40 1 BOLT AC	4"	4.2	130
S2040166	COUPLING HD50 1 BOLT AC	5"	3.8	130

STANDARD FINISHING IN GREY PRIMER, ON REQUEST HOT ZINC PLATING

GASKETS FOR HIGH PRESSURE HEAVY DUTY COLLARS


CODE	DESCRIPTION	MATERIAL	HARDNESS (shore)
K2029126	GASKET HD20 NBR70	EPDM75	75
K2029127	GASKET HD30 NBR70	EPDM75	75
K2030258	GASKET HD40 NBR70	EPDM75	75
K2029128	GASKET HD50 NBR70	EPDM75	75

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SUMMARY TABLE+A1232

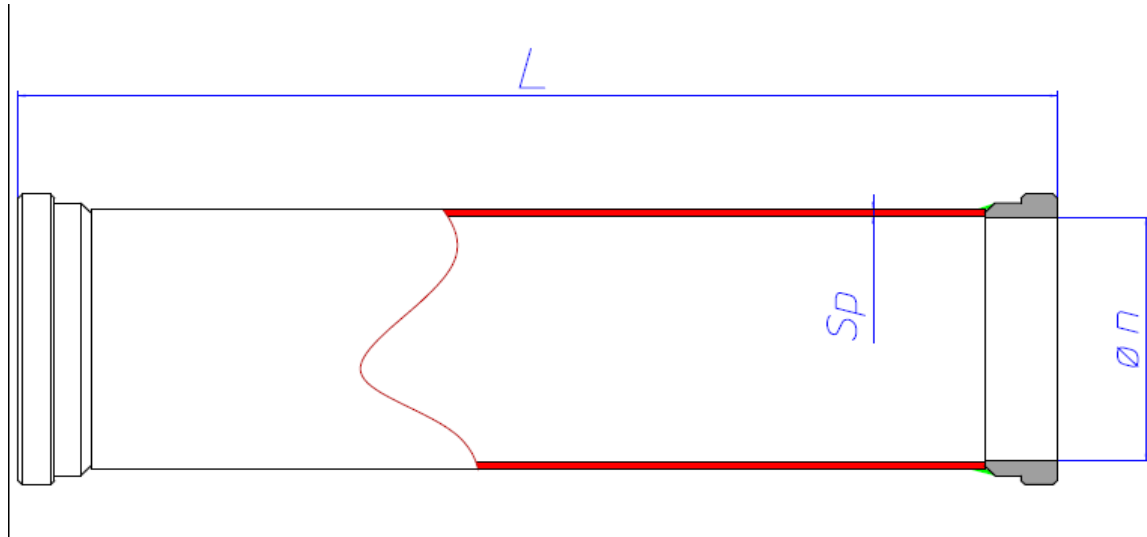
TYPE	MATERIAL	AVAILABLE DIAMETERS (mm)	USAGE	AVAILABLE LENGHTS (mm)
PIPE STD SP2	SINGLE LAYER STEEL P355	100/125	LOW PRESSURE POURING	MIN. 70mm
PIPE STD SP3	SINGLE LAYER STEEL P355	100	LOW PRESSURE POURING	MIN. 70mm
PIPE STD SP4	SINGLE LAYER STEEL P355	75/100/112/125/150	FOR DISTRIBUTION BOOM AND LAY DOWN SYSTEM 85bar	MIN. 70mm
PIPE STD SP7	SINGLE LAYER STEEL P355	75/100/112/125/175	FOR DECK AND LAY DOWN SYSTEM 130bar	MIN. 70mm
PIPE STD SP8	SINGLE LAYER STEEL P355	75/125/150	FOR HIGH PRESSURE LAY DOWN SYSTEM 200bar	MIN. 80mm
PIPE TMP SP4	SINGLE LAYER HARDENED 50HRC	75/100/112/125	FOR DISTRIBUTION BOOM AND LAY DOWN SYSTEM 85bar	MIN. 80mm
PIPE TMP SP7	SINGLE LAYER HARDENED 50HRC	100/112/125	FOR DECK AND LAY DOWN SYSTEM 130bar	MIN. 80mm
PIPE TMP SP10	SINGLE LAYER HARDENED 50HRC	150	FOR DECK AND LAY DOWN SYSTEM 130bar	MIN. 80mm
PIPE LLN	DOUBLE LAYER 2+2.5 HARDENED 65HRC	100/112/117/125	FOR GROUND AND TRUCK PLACING BOOMS	MIN. 80mm MAX. 6000mm
PIPE LLT	DOUBLE LAYER 1.5+3 HARDENED 65HRC	125	FOR GROUND AND TRUCK PLACING BOOMS	MIN. 80mm MAX. 6000mm
PIPE LLL	DOUBLE LAYER 1.5+2.5 HARDENED 65HRC	125	FOR GROUND AND TRUCK PLACING BOOMS	MIN. 80mm MAX. 6000mm
PIPE LLH	DOUBLE LAYER 3+5 HARDENED 65HRC	100/112/117/125/150	FOR TRUCK PUMPS DECK AND HIGH WEAR APPLICATIONS	MIN. 80mm MAX. 6000mm
PIPE LLHC	DOUBLE LAYER 3+5 CHROMIUM CARBIDE CASTING	125	FOR TRUCK PUMPS DECK AND EXTREME WEAR APPLICATIONS	MIN. 80mm MAX. 6000mm

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SINGLE LAYER STANDARD (STD)

PIPE MATERIAL: STEEL P355 EN10217
 COLLARS MATERIAL: STEEL E355 EN10305



DN (mm/in)	De (mm)	Sp (mm)	WORKING PRESSURE (bar)*	NET WEIGHT (Kg/m)	FWC WEIGHT (KG/m)	NOTE
75/3	82.5	4	85	7.8	18.3	/
75/3	88.9	8	85-130	16.0	26.0	/
100/4	108	2	/	5.2	25.6	/
100/4	108	3	/	7.8	27.4	/
100/4	108	4	85	10.3	29.2	/
100/4	114.3	6.3	85-130	16.8	36.3	/
112/4.5	121	4	85	11.6	35.7	/
112/4.5	127	6.3	85-130	18.6	43.3	/
125/5	133	2	/	6.4	41.5	/
125/5	133	4	85	12.8	42.3	/
125/5	139.7	6.3	85-130	20.7	51.2	/
125/5	139.7	8	85-200	26.0	54.9	/
150/6	159	4.5	85	17.2	59.7	/
150/6	168.3	8	85-130	31.7	75.5	/
175/7	193.7	8	85-130	36.6	98.5	/

* WORKING PRESSURE OF 85 bar IS INTENDED WITH STANDARD COLLARS "SC"

* WORKING PRESSURE OF 130-200 bar IS INTENDED WITH HIGH PRESSURE COLLARS
 (CIFA/SCHWING/PUTZMEISTER)

ESEMPIO NOMENCLATURA:

-PIPE STD SP4 125SC55 L3000

TYPE+DN+COLLARS ID+LENGHT

-PIPE STD SP8 125FZ50/125MZ50 L1500

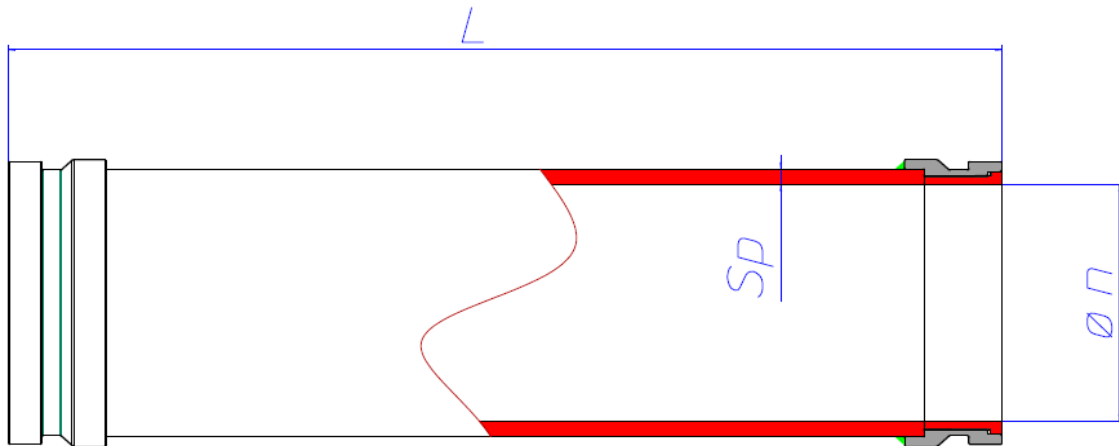
TYPE+DN+COLLARS ID+/-DN+COLLARS ID+LENGHT

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SINGLE LAYER HARDENED (TMP)

DOUBLE LAYER COLLARS WITH 62HRC HARDENED INSERT
 INDUCTION HARDENED PIPE WITH 55HRC MEDIUM HARDNESS
 COOL WELDING TECHNOLOGY TO PRESERVE THE HARDNESS UNDER WELDING SEAM



DN (mm/in)	De (mm)	Sp (mm)	WORKING PRESSURE (bar)*	NET WEIGHT (Kg/m)	FWC WEIGHT (KG/m)	NOTE
75/3	82.5	4	85	7.7	18.3	/
100/4	108	4	85	10.3	29.2	/
100/4	114.3	7	85/130	18.5	37.4	/
112/4.5	121	4	85	11.6	35.7	/
112/4.5	127	7	85/130	20.7	44.7	/
125/5	133	4	85	12.8	42.3	/
125/5	139.7	7	85/130	22.9	52.6	/
150/6	165	10	85/130	38.2	80.6	/

DIFFERENT THICKNESS AND DIAMETERS ON REQUEST

* WORKING PRESSURE OF 85 bar IS INTENDED WITH STANDARD COLLARS "SC"

* WORKING PRESSURE OF 130-200 bar IS INTENDED WITH HIGH PRESSURE COLLARS
(CIFA/SCHWING/PUTZMEISTER)

ESEMPIO NOMENCLATURA:

-PIPE TMP SP4 100SC45 L3000

TYPE+DN+COLLARS ID+LENGHT

-PIPE TMP SP7 125FZ50/125MZ50 L1500

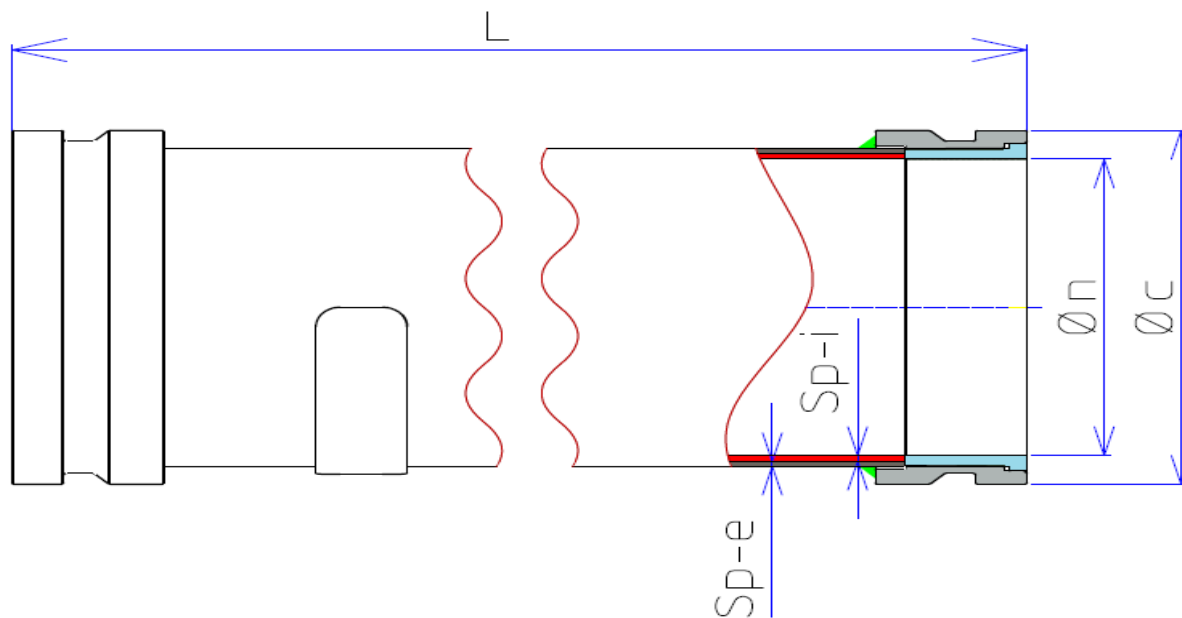
TYPE+DN+COLLARS ID+ / +DN+COLLARS ID+LENGHT

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LONG LIFE NORMAL DOUBLE LAYER (LLN 2+2.5)

DOUBLE LAYER COLLARS WITH CHROMIUM CARBIDE INSERT
 DOUBLE LAYER INDUCTION HARDENED PIPE WITH 65HRC MEDIUM HARDNESS
 COOL WELDING TECHNOLOGY TO PRESERVE THE HARDNESS UNDER WELDING SEAM



DN (mm/in)	De (mm)	Sp (mm)	WORKING PRESSURE (bar)*	NET WEIGHT (Kg/m)	FWC WEIGHT (KG/m)	NOTE
100/4	108	2+2.5	85	11.6	30.1	/
112/4.5	121	2+2.5	85	13.0	36.3	/
117/4.75	127	2+2.5	85	13.7	39.9	/
125/5	133	2+2.5	85	14.5	43.5	/

ESEMPIO NOMENCLATURA:

-PIPE LLN 100SC45 L3000

TYPE+DN+COLLARS ID+LENGHT

-PIPE LLN 125FZ50/125MZ50 L1500

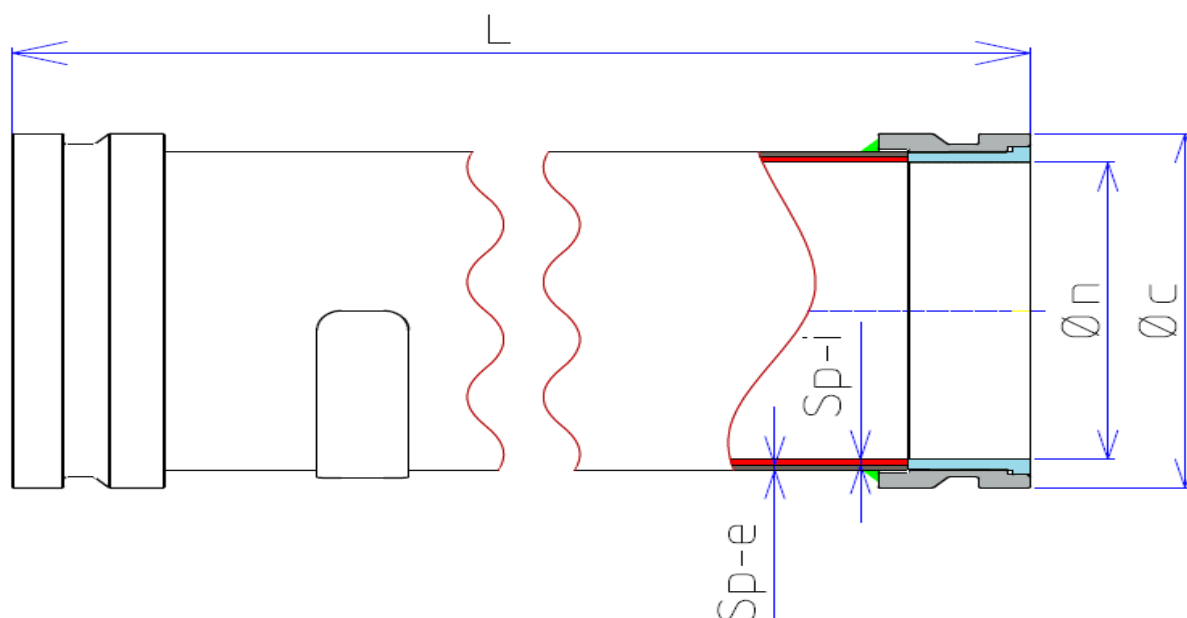
TYPE+DN+COLLARS ID+ / +DN+COLLARS ID+LENGHT

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COMPACT LONG LIFE TOP DOUBLE LAYER (LLT 1.5+3)

DOUBLE LAYER COLLARS WITH CHROMIUM CARBIDE INSERT
 DOUBLE LAYER INDUCTION HARDENED PIPE WITH 65HRC MEDIUM HARDNESS
 COOL WELDING TECHNOLOGY TO PRESERVE THE HARDNESS UNDER WELDING SEAM



DN (mm/in)	De (mm)	Sp (mm)	WORKING PRESSURE (bar)*	NET WEIGHT (Kg/m)	FWC WEIGHT (KG/m)	NOTE
125/5	133	1.5+3	85	14.5	43.5	/

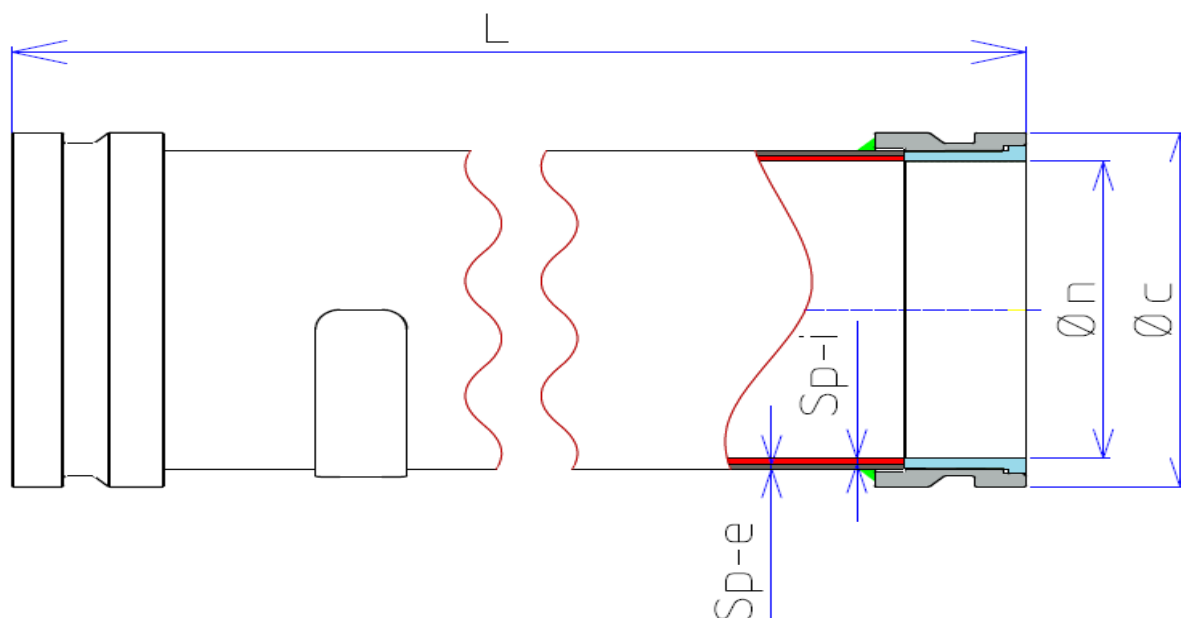
ESEMPIO NOMENCLATURA:

-PIPE LLT **125SC55 L3000**TYPE+**DN**+COLLARS ID+**LENGHT**-PIPE LLT **125FZ50/125MZ50 L1500**TYPE+**DN**+COLLARS ID+/**DN**+COLLARS ID+**LENGHT**
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COMPACT LONG LIFE LIGHT DOUBLE LAYER (LLL 1.5+2.5)

DOUBLE LAYER COLLARS WITH CHROMIUM CARBIDE INSERT
 DOUBLE LAYER INDUCTION HARDENED PIPE WITH 65HRC MEDIUM HARDNESS
 COOL WELDING TECHNOLOGY TO PRESERVE THE HARDNESS UNDER WELDING SEAM



DN (mm/in)	De (mm)	Sp (mm)	WORKING PRESSURE (bar)*	NET WEIGHT (Kg/m)	FWC WEIGHT (KG/m)	NOTE
125/5	133	1.5+2.5	85	13.4	42.4	/

ESEMPIO NOMENCLATURA:

-PIPE LLL 125SC55 L3000

TYPE+DN+COLLARS ID+LENGHT

-PIPE LLL 125FZ50/125MZ50 L1500

TYPE+DN+COLLARS ID+ / +DN+COLLARS ID+LENGHT

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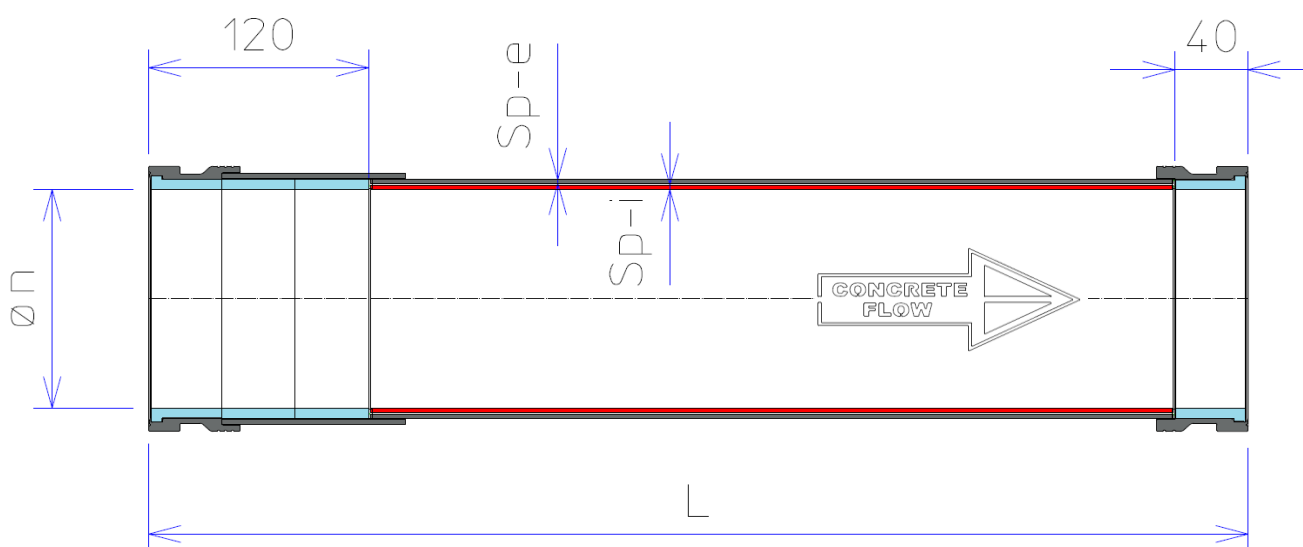
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DOUBLE LAYER PIPES WITH EXTENDED COLLAR (LLN-LLT-LLL)

IN CONDITIONS OF HIGH WEAR IN THE INLET SECTION IT IS POSSIBLE TO MOUNT AN EXTENDED COLLAR WITH 120mm LENGTH REINFORCED CHROMIUM CARBIDE INSERT.

RECOMMENDED ON BOOM SECTIONS JUST AFTER ELBOWS OR BENDS.

SOLUTION SUITABLE ON ANY DOUBLE LAYER BOOM PIPE (LLN,LLT,LLL)



EXTENDED COLLARS FOR STANDARD COUPLING SYSTEM

CODE	ID	DESCRIPTION	INCHES	DN/D (mm)	WEIGHT (Kg)
S2011840	SL45	COLL SL45 L100	4.5"	100/127	3.5
S2026501	SL55	COLL SL55 L100	5.5"	112-117-125/148	3.8

ESEMPIO NOMENCLATURA:

-PIPE LLN **100SL45/100SC45 L3000**

TYPE+**DN**+COLLARS ID+**LENGHT**

-PIPE LLT **125SL55/125SC55 L1500**

TYPE+**DN**+COLLARS ID+/**DN**+COLLARS ID+**LENGHT**

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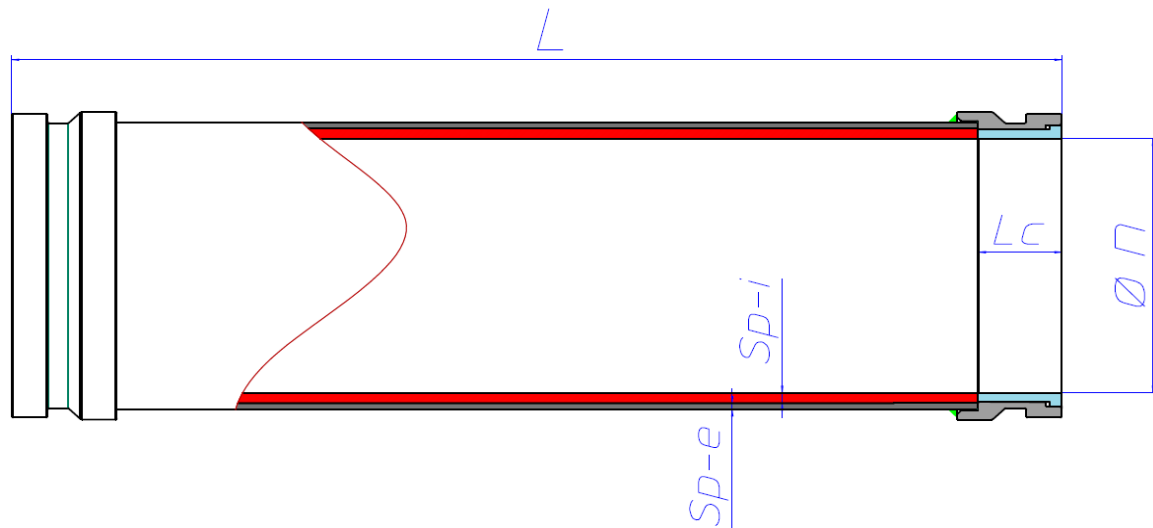
LONG LIFE HARD DOUBLE LAYER (LLH)

DOUBLE LAYER COLLARS WITH CHROMIUM CARBIDE INSERT

DOUBLE LAYER INDUCTION HARDENED PIPE WITH 65HRC MEDIUM HARDNESS

COOL WELDING TECHNOLOGY TO PRESERVE THE HARDNESS UNDER WELDING SEAM

RECOMMENDED AS DECK PIPE ON TRUCK PUMPS AND IN ANY APPLICATION INVOLVING VERY HIGH WEAR RATE WITHOUT LIMIT WEIGHT PROBLEMS.



DN (mm/in)	De (mm)	Sp (mm)	WORKING PRESSURE (bar)*	NET WEIGHT (Kg/m)	FWC WEIGHT (KG/m)	NOTE
100/4	114.3	2.3+5	85-130	19.1	38.0	/
112/4.5	127	2.4+5	85-130	21.7	45.4	/
117/4.75	133	2+5	85-130	21.5	47.3	/
125/5	139.7	3+5	85-130	25.9	55.4	/
150/6	168.3	3+5.6	85-130	33.4	75.8	/

* WORKING PRESSURE OF 85 bar IS INTENDED WITH STANDARD COLLARS "SC"

* WORKING PRESSURE OF 130-200 bar IS INTENDED WITH HIGH PRESSURE COLLARS (CIFA/SCHWING/PUTZMEISTER)

ESEMPIO NOMENCLATURA:

-PIPE LLH 100SC45 L3000

TYPE+DN+COLLARS ID+LENGHT

-PIPE LLH 125FZ50/125MZ50 L1500

TYPE+DN+COLLARS ID+/-DN+COLLARS ID+LENGHT

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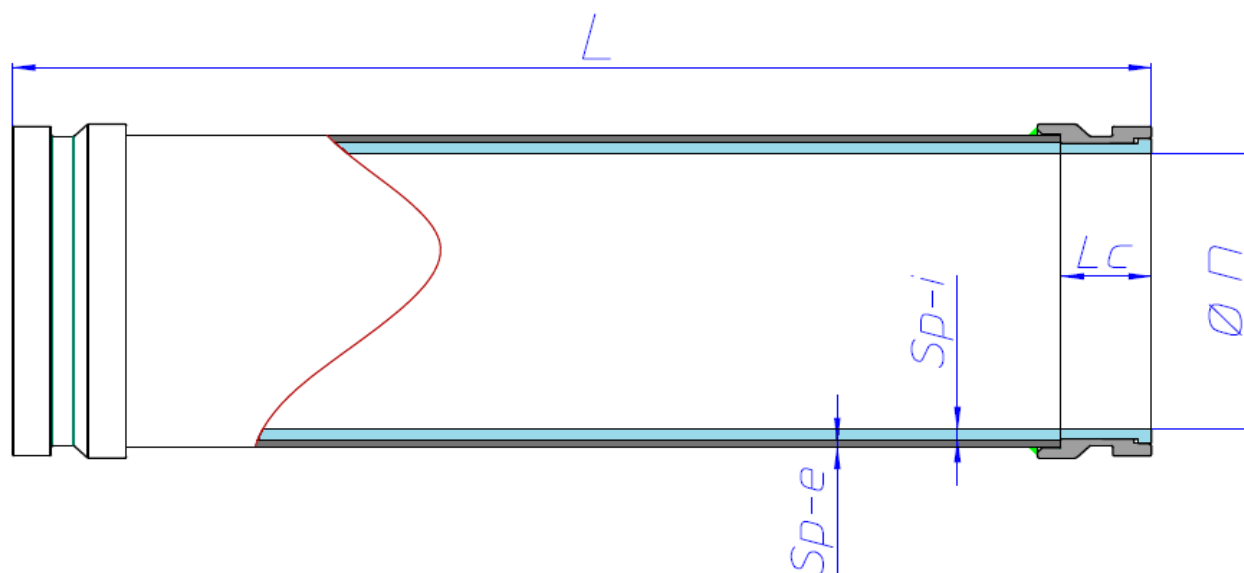
LONG LIFE HARD CHROMIUM DOUBLE LAYER (LLHC)

DOUBLE LAYER COLLARS WITH CHROMIUM CARBIDE INSERT

DOUBLE LAYER INDUCTION HARDENED PIPE WITH 65HRC MEDIUM HARDNESS

COOL WELDING TECHNOLOGY TO PRESERVE THE HARDNESS UNDER WELDING SEAM

RECOMMENDED AS DECK PIPE ON TRUCK PUMPS AND IN ANY APPLICATION INVOLVING EXTREME WEAR RATE WITHOUT LIMIT WEIGHT PROBLEMS.



DN (mm/in)	De (mm)	Sp (mm)	WORKING PRESSURE (bar)*	NET WEIGHT (Kg/m)	FWC WEIGHT (KG/m)	NOTE
125/5	139.7	3+5	85/130	25.9	55.4	/

* WORKING PRESSURE OF 85 bar IS INTENDED WITH STANDARD COLLARS "SC"

* WORKING PRESSURE OF 130-200 bar IS INTENDED WITH HIGH PRESSURE COLLARS (CIFA/SCHWING/PUTZMEISTER)

ESEMPIO NOMENCLATURA:

-PIPE LLHC 125SC55 L3000

TYPE+DN+COLLARS ID+LENGHT

-PIPE LLHC 125FZ50/125MZ50 L1500

TYPE+DN+COLLARS ID+/-DN+COLLARS ID+LENGHT

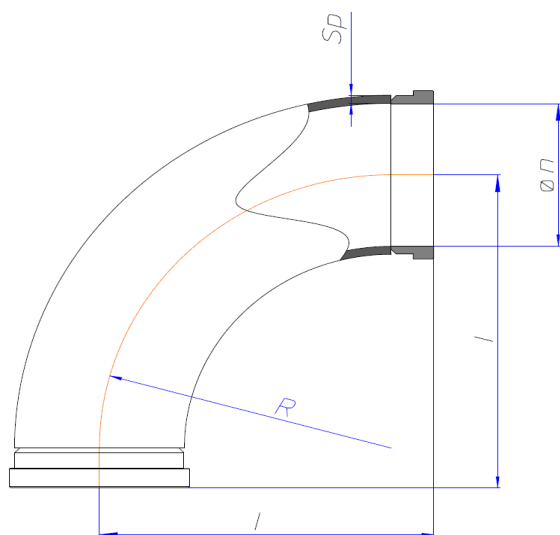
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SUMMARY TABLE

TYPE	MATERIAL	USAGE	NOTE
BEND STD	SINGLE LAYER P355 STEEL BEND	FOR DISTRIBUTION BOOM AND LAY DOWN SYSTEMS	/
BEND MN	SINGLE LAYER MANGANESE CASTING BEND	FOR DISTRIBUTION BOOM LOW WEAR	/
BEND LLN	SINGLE LAYER ALLOY CASTING BEND WITH DOUBLE LAYER COLLARS	FOR DISTRIBUTION BOOM MEDIUM WEAR	/
BEND LLT	DOUBLE LAYER WITH CHROMIUM CARBIDE INNER WEAR INSERT 3+7	FOR DISTRIBUTION BOOM HIGH WEAR	/
BEND LLH	DOUBLE LAYER WITH CHROMIUM CARBIDE INNER WEAR INSERT 3+10	FOR TRUCK PUMP DECK-TURRETT AND HIGH WEAR SYSTEMS	/
BEND LLH (IMPACT)	DOUBLE LAYER WITH CHROMIUM CARBIDE INNER WEAR INSERT 3+12	DROP ELBOW FOR DISTRIBUTION BOOM	/

STANDARD SINGLE LAYER (STD)



BEND MATERIAL: P355 EN10217 STEEL
COLLAR MATERIAL: E355 EN10305 STEEL

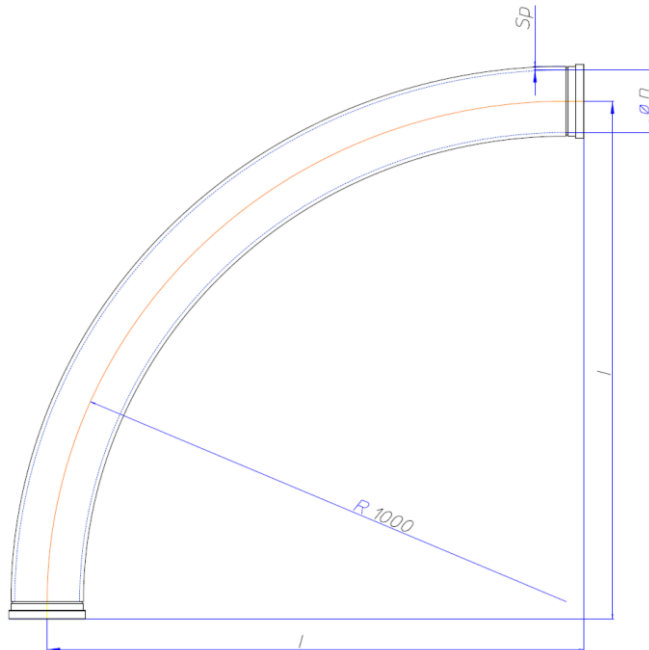
CODE	DESCRIPTION	THICKNESS (mm)	WORKING PRESSURE (bar)*	WEIGHT (Kg)	R	I
S2030393	BEND STD 75SC30 45G R114	6	85	2.4	114	/
S2037690	BEND STD 75SC30 90G R150	6	85	3.2	114	150
S000225688	BEND STD 75SC34 45G R114	6	85	2.5	114	/
S000225554	BEND STD 75SC34 90G R150	6	85	3.2	114	150
S2005810	BEND STD 100SC40 45G R250	6	85	5	250	/
S000207640	BEND STD 100SC40 90G R180	6	85	6	140	180
S2005809	BEND STD 100SC40 90G R275	6	85	9	240	275
S000058241	BEND STD 100SC40 90G R285	6	85	9.2	250	285
S2030360	BEND STD 100SC45 30G R250	6	85	4.4	250	/
S2030361	BEND STD 100SC45 45G R140	6	85	4.2	140	/
S000228150	BEND STD 100SC45 45G R250	6	85	5.5	250	/
S2030363	BEND STD 100SC45 90G R175	6	85	6	140	175
S2030364	BEND STD 100SC45 90G R180	6	85	6	140	180
S2040171	BEND STD 100SC45 90G R275	6	85	9	240	275
S000227106	BEND STD 100SC45 90G R285	6	85	9.2	250	285
S2030366	BEND STD 100SC45/100SC40 90G R285	6	85	9.2	250	285
S000239508	BEND STD 125FP50/125MZ50 90G R275	7	130	12	240	275
S000222187	BEND STD 125FZ50/125MZ50 90G R275	7	130	12	240	275
K2035313	BEND STD 125FZ50/125MZ50 90G R285	7	130	12.3	250	285
S000224962	BEND STD 125FZ50/125MZ50 90G R581	7	130	22.5	550	581
S000239637	BEND STD 125FZ60/125MZ60 90G R581	7	130	22.5	550	581
S2030374	BEND STD 125SC50 30G R240	7	85	5.3	240	/
S000059170	BEND STD 125SC50 90G R350	7	85	13	315	350
S000244959	BEND STD 125SC55 30G R190	7	85	5	190	/
S2030375	BEND STD 125SC55 30G R240	7	85	5.4	240	/
S000567768	BEND STD 125SC55 45G R190	7	85	5.5	190	/
S2030383	BEND STD 125SC55 45G R240	7	85	7	240	/
S000227421	BEND STD 125SC55 45G R550	7	85	22.5	550	581
S000548283	BEND STD 125SC55 90G R225	7	85	9	190	225
S000231381	BEND STD 125SC55 90G R275	7	85	12	240	275
S2030388	BEND STD 125SC55 90G R315	7	85	13.3	315	350
S000224964	BEND STD 125SC55 90G R581	7	85	22.5	550	581
S000224965	BEND STD 125SC55/125FZ50 90G R275	7	85	12	240	275

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BENDS AND ELBOWS

S2039366	BEND STD 150FZ60/150MZ60 90G R221	7	130	14	229	221
S000231032	BEND STD 150FZ60/150MZ60 90G R420	7	130	23	390	420
S2030391	BEND STD 150SC60 45G R229	7	85	9	229	/
S000058723	BEND STD 150SC60 90G R234	7	85	14	229	234
S000214118	BEND STD 150SC60/150SC65 90G R221	7	85	13.8	229	221
S2030390	BEND STD 150SC65 45G R229	7	85	9	229	/



FOR CONDITIONS OF HIGH WEAR
EVERY PIECE IS AVAILABLE WITH
SURFACE HARDENING TREATMENT

1000mm RADIUS 5" ELBOWS ARE
AVAILABLE ALSO IN DOUBLE LAYER
LLH VERSION

CODE	DESCRIPTION	THK (mm)	WORKING PRESSURE (bar)*	WEIGHT (Kg)	R	
S2039604	BEND STD 100FZ40/100MZ40 45G R1000	7	130	16.3	1000	
S2039603	BEND STD 100FZ40/100MZ40 90G R1000	7	130	29	1000	
S2030359	BEND STD 100SC45 15G R1000	7	85	7.4	1000	
S000228260	BEND STD 100SC45 30G R1000	7	85	11.7	1000	
S000222240	BEND STD 100SC45 45G R1000	7	85	16	1000	
S000228261	BEND STD 100SC45 60G R1000	7	85	20.4	1000	
S000222239	BEND STD 100SC45 90G R1000	7	85	29	1000	
S000222200	BEND STD 125FZ50/125MZ50 30G R1000	7	130	11.3	1000	
S000222199	BEND STD 125FZ50/125MZ50 45G R1000	7	130	20	1000	
S000222197	BEND STD 125FZ50/125MZ50 90G R1000	7	130	27	1000	
S2030370	BEND STD 125SC55 15G R1000	7	85	8.6	1000	
S000222597	BEND STD 125SC55 30G R1000	7	85	11.2	1000	
S000222242	BEND STD 125SC55 45G R1000	7	85	19.8	1000	
S000222596	BEND STD 125SC55 60G R1000	7	85	19.4	1000	
S000222241	BEND STD 125SC55 90G R1000	7	85	36.5	1000	
S2039957	BEND STD 125SF50/125SM50 45G R1000	7	130	20	1000	
S2039956	BEND STD 125SF50/125SM50 90G R1000	7	130	27	1000	
S2037817	BEND STD 125ZXF5/125ZXM5 45G R1000	7	130	20	1000	
S2030389	BEND STD 125ZXF5/125ZXM5 90G R1000	7	130	27	1000	
S000222599	BEND STD 150FZ60/150MZ60 30G R1000	7	130	11.3	1000	
S000222244	BEND STD 150FZ60/150MZ60 45G R1000	7	130	20	1000	
S000222243	BEND STD 150FZ60/150MZ60 90G R1000	7	130	27	1000	

WE CAN WORK ALSO ON CUSTOMER DRAWING AND WITH CUSTOM DESIGN FLANGES

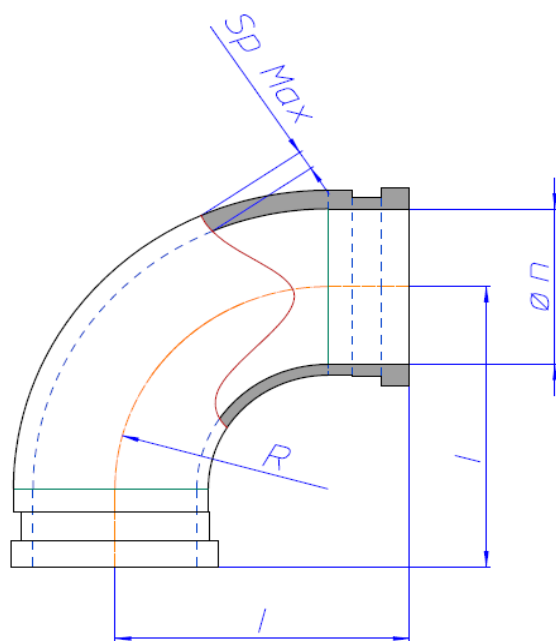
* WORKING PRESSURE OF 85 bar IS INTENDED WITH STANDARD COLLARS "SC"

* WORKING PRESSURE OF 130-200 bar IS INTENDED WITH HIGH PRESSURE COLLARS (CIFA/SCHWING/PUTZMEISTER)

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MANGANESE CAST ELBOWS (MN)



ANTI WEAR MANGANESE CASTING WITH
DIFFERENTIATED THICKNESS

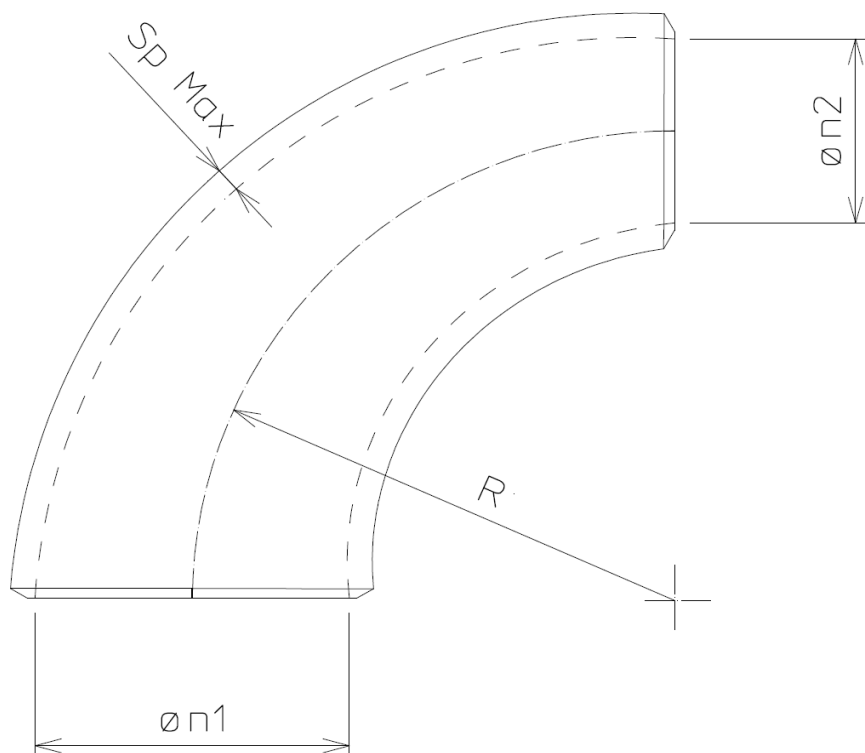
CODE	DESCRIPTION	SP (mm)	WORKING PRESSURE (bar)	WEIGHT (Kg)	R	I	NOTE
S1014480	BEND MN 75SC34 45G R114	10	85	3	114	/	/
S1014479	BEND MN 75SC34 90G R150	10	85	4.1	114	150	/
S2036894	BEND MN 100SC45 30G R235	13	85	5.5	235	/	/
S000241533	BEND MN 100SC45 45G R235	13	85	7.7	235	/	CIFA
S2030774	BEND MN 100SC45 45G R235	13	85	7.4	235	/	PZ-SER
S2023201	BEND MN 100SC45 90G R180	13	85	8.3	140	180	/
S2026500	BEND MN 100SC45 90G R275	13	85	12	235	275	/
S2023199	BEND MN 100SC45 90G R285	13	85	12.5	235	285	/
S2026479	BEND MN 112SC50 45G R235	13	85	7.5	235	/	/
S2023209	BEND MN 112SC50 90G R180	13	85	8.5	140	180	/
S2023210	BEND MN 112SC50 90G R275	13	85	13	235	275	/
S2026478	BEND MN 112SC55 45G R235	13	85	7.8	235	/	/
S2023207	BEND MN 112SC55 90G R180	13	85	8.8	140	180	/
S2023208	BEND MN 112SC55 90G R275	13	85	13.3	235	275	/
S2038707	BEND MN 125HD50 45G R235	13	130	7.2	235	/	/
S2038706	BEND MN 125HD50 90G R275	13	130	15.2	235	275	/
K000243506	BEND MN 125SC55 30G R235	13	85	5.6	235	/	CIFA
S2023203	BEND MN 125SC55 30G R235	13	85	5.4	235	/	PZ-SER
S2023200	BEND MN 125SC55 45G R235	13	85	8.1	235	/	/
S2023204	BEND MN 125SC55 90G R180	13	85	11.5	140	180	/
S2023198	BEND MN 125SC55 90G R275	13	85	15.5	235	275	/
S1014473	BEND MN 125FP50/125MZ50 90G R275	13	130	15.8	235	275	/
S2037818	BEND MN 125ZXM5/125XF5 90G R275	13	130	16	235	275	/

* WORKING PRESSURE OF 85 bar IS INTENDED WITH STANDARD COLLARS "SC"

* WORKING PRESSURE OF 130-200 bar IS INTENDED WITH HIGH PRESSURE COLLARS
(CIFA/SCHWING/PUTZMEISTER)

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MANGANESE CAST REDUCED ELBOWS (MN)


ANTI WEAR MANGANESE CASTING
WITH DIFFERENTIATED THICKNESS

DN1 (mm/in)	DN2 (mm/in)	Sp max (mm)	R	WORKING PRESSURE (bar)*	WEIGHT (Kg)	NOTE
175/7	150/6	13	350	85-130	33	/
150/6	125/5	13	230	85-130	10.5	/
125/5	100/4	13	190	85-130	9	/
125/5	75/3	13	190	85-130	8.5	/
100/4	75/3	13	160	85-130	6.3	/

* WORKING PRESSURE OF 85 bar IS INTENDED WITH STANDARD COLLARS "SC"

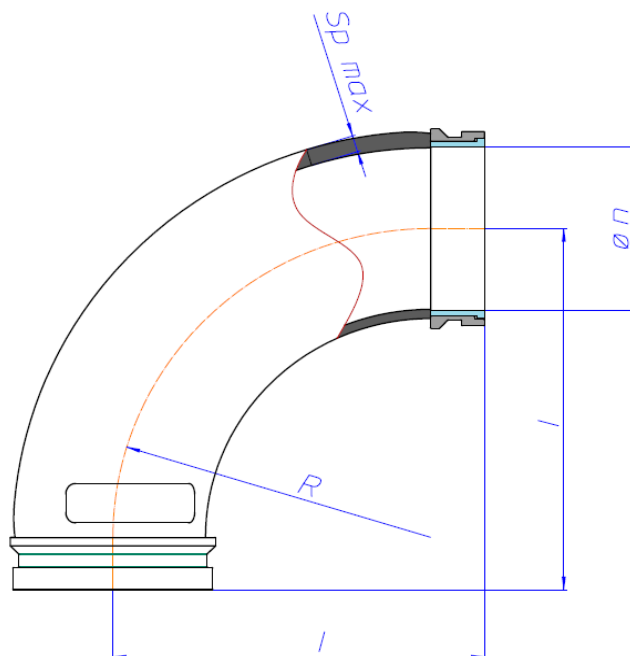
* WORKING PRESSURE OF 130-200 bar IS INTENDED WITH HIGH PRESSURE COLLARS
(CIFA/SCHWING/PUTZMEISTER)

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LONG LIFE NORMAL ELBOWS (LLN)

MANGANESE ALLOY HEAT TREATED ELBOW BODY, DOUBLE LAYER COLLARS WITH CHROMIUM CARBIDE INSERT



CODE	DESCRIPTION	Sp max (mm)	WORKING PRESSURE (bar)	WEIGHT (Kg)	R	I	NOTE
S2030330	BEND LLN 100SC45 30G R235	13	85	6	235	/	/
S2001064	BEND LLN 100SC45 45G R235	13	85	8.2	235	/	CIFA
S2030331	BEND LLN 100SC45 45G R235	13	85	7.9	235	/	PZ-SER
S2030333	BEND LLN 100SC45 90G R180	13	85	8.8	140	180	/
S2030334	BEND LLN 100SC45 90G R275	13	85	12.5	235	275	/
S1035915	BEND LLN 100SC45 90G R285	13	85	13	235	285	/
S2013262	BEND LLN 112SC55 90G R180	13	85	9.3	140	180	/
S2013263	BEND LLN 112SC55 90G R275	13	85	13.8	235	275	/
S1025860	BEND LLN 125SC55 30G R235	13	85	6.1	235	/	CIFA
S2030341	BEND LLN 125SC55 30G R235	13	85	5.9	235	/	PZ-SER
S2030346	BEND LLN 125SC55 45G R235	13	85	8.6	235	/	/
S2030347	BEND LLN 125SC55 90G R180	13	85	12	140	180	/
S2030349	BEND LLN 125SC55 90G R275	13	85	16	235	275	/

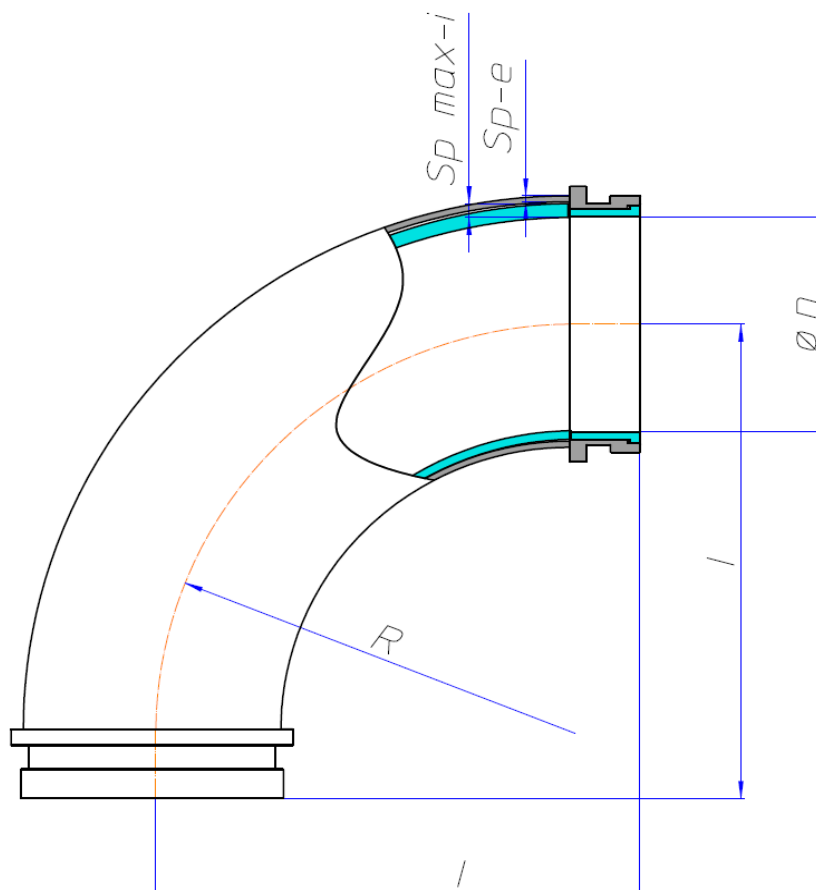
* WORKING PRESSURE OF 85 bar IS INTENDED WITH STANDARD COLLARS "SC"

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LONG LIFE TOP COMPACT ELBOWS (LLT 3+7)

DOUBLE LAYER COLLARS WITH CHROMIUM CARBIDE INSERT
DOUBLE LAYER ELBOW WITH CHROMIUM CARBIDE INSERT
WITH THE NEW COMPACT TECHNOLOGY THERE IS ZERO GAP BETWEEN THE TWO LAYERS
SPECIFICALLY DESIGNED FOR DISTRIBUTION BOOMS TO BE MOUNTED WITH SERIES LLN-LLT-LLL PIPES



CODE	DESCRIPTION	Spe+Spi (mm)	WORKING PRESSURE (bar)	WEIGHT (Kg)	R	I	NOTE
S2030302	BEND LLT 112SC55 45G R235	3+7	85	8.2	235	/	/
S2022749	BEND LLT 112SC55 90G R180	3+7	85	9.5	140	180	/
S2030303	BEND LLT 112SC55 90G R275	3+7	85	13	235	275	/
S2030320	BEND LLT 117SC55 90G R180	3+7	85	9.8	140	180	/
S2030321	BEND LLT 117SC55 90G R275	3+7	85	12.5	235	275	/
S2002705	BEND LLT 125SC55 30G R235	3+7	85	7	235	/	CIFA
S2030327	BEND LLT 125SC55 30G R235	3+7	85	6.9	235	/	PZ-SER
S1043482	BEND LLT 125SC55 45G R235	3+7	85	8.1	235	/	/
S1045167	BEND LLT 125SC55 90G R225	3+7	85	10.2	190	225	/
S1045530	BEND LLT 125SC55 90G R275	3+7	85	15	235	275	/

* WORKING PRESSURE OF 85 bar IS INTENDED WITH STANDARD COLLARS "SC"

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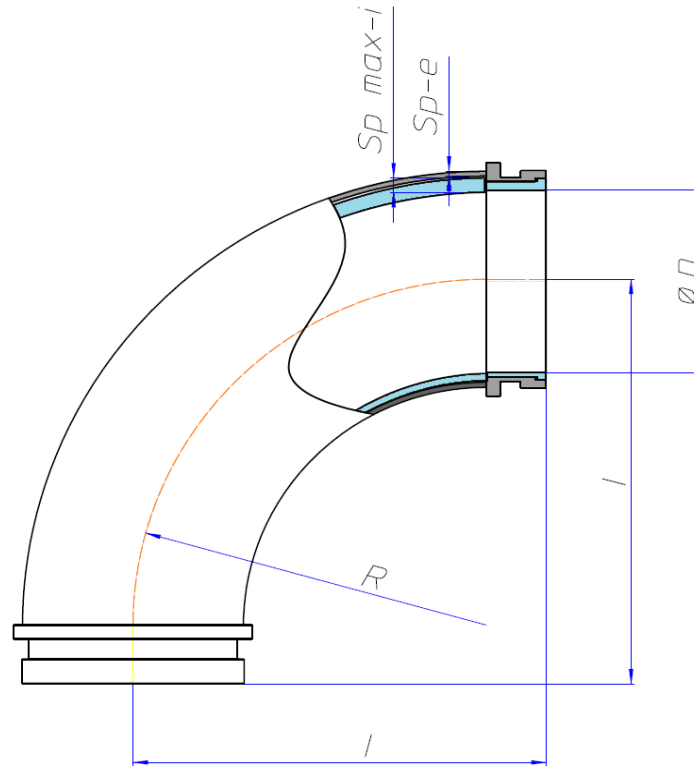
LONG LIFE HARD COMPACT ELBOWS (LLH 3+10)

DOUBLE LAYER COLLARS WITH CHROMIUM CARBIDE INSERT

DOUBLE LAYER ELBOW WITH CHROMIUM CARBIDE INSERT

WITH THE NEW COMPACT TECHNOLOGY THERE IS ZERO GAP BETWEEN THE TWO LAYERS

SPECIFICALLY DESIGNED FOR DECK AND TURRETT OF TRUCK PUMPS TO BE MOUNTED WITH SERIES LLH PIPES



CODE	DESCRIPTION	Spe+Spi (mm)	WORKING PRESSURE (bar)	WEIGHT (Kg)	R	I	NOTE
S2006595	BEND LLH 100SC45 30G R235	3+10	85	6	235	/	/
S2008949	BEND LLH 100SC45 45G R235	3+10	85	7	235	/	CIFA
S2030298	BEND LLH 100SC45 45G R235	3+10	85	7.2	235	/	PZ-SER
S2000807	BEND LLH 100SC45 90G R180	3+10	85	9.5	140	180	/
S2000808	BEND LLH 100SC45 90G R275	3+10	85	12	235	275	/
S2005830	BEND LLH 100SC45 90G R285	3+10	85	12.5	235	285	/
S1045444	BEND LLH 125SC55 30G R235	3+10	85	7.3	235	/	CIFA
S2001069	BEND LLH 125SC55 45G R235	3+10	85	8.5	235	/	/
S1045170	BEND LLH 125SC55 90G R180	3+10	85	9.6	140	180	/
S1040786	BEND LLH 125SC55 90G R225	3+10	85	13	190	225	/
S1025876	BEND LLH 125SC55 90G R275	3+10	85	15.8	235	275	/
S2030317	BEND LLH 125ZXM5/125ZXF5 90G R285	3+10	85	17.9	235	285	/
S2032851	BEND LLH 150FP60/150MP60 45G R228	3+10	85	19.9	228	/	/
S2032852	BEND LLH 150FZ60/150MZ60 90G R280	3+10	85	29.5	228	280	/
S2041004	BEND LLH 175FZ70/175MZ70 90G R340	6+10	85-130	75.6	305	340	/

* WORKING PRESSURE OF 85 bar IS INTENDED WITH STANDARD COLLARS "SC"

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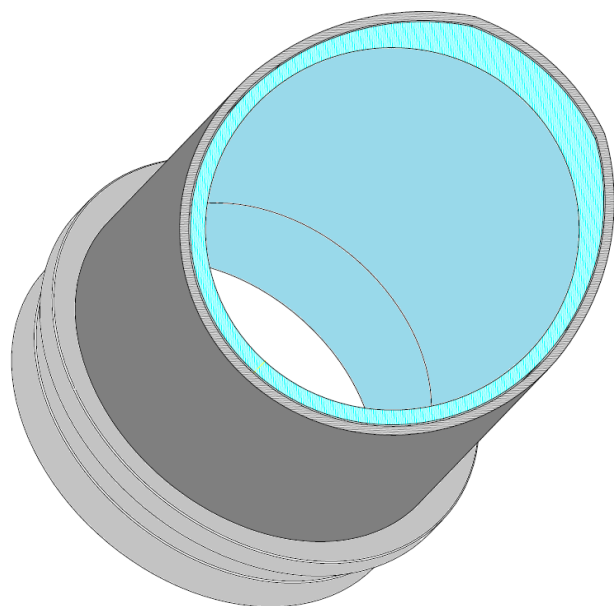
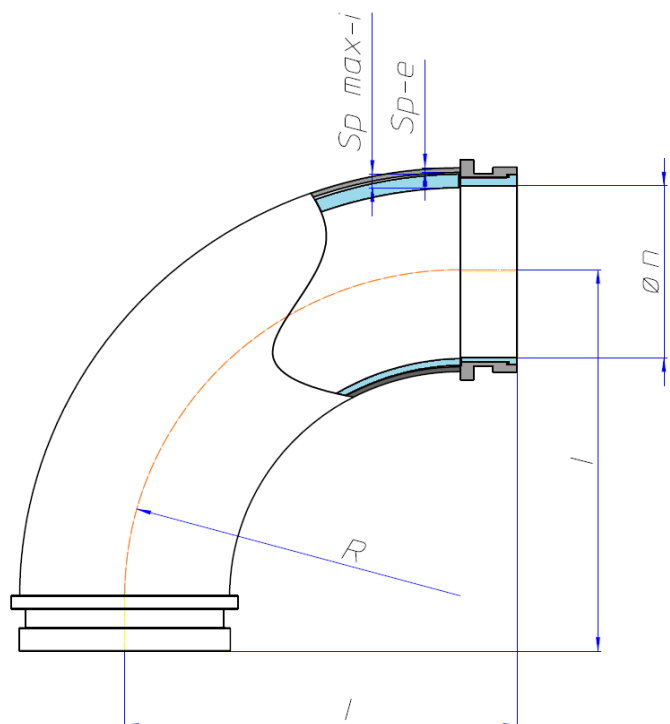
LLH IMPACT ELBOWS (LLH 3+12)

DOUBLE LAYER COLLARS WITH CHROMIUM CARBIDE INSERT

DOUBLE LAYER ELBOW WITH CHROMIUM CARBIDE INSERT

WITH THE NEW COMPACT TECHNOLOGY THERE IS ZERO GAP BETWEEN THE TWO LAYERS

SPECIFICALLY DESIGNED TO BE MOUNTED AS IMPACT ELBOW ON THE LAST SECTION OF DISTRIBUTION BOOMS



CODE	DESCRIPTION	Spe+Spi (mm)	WORKING PRESSURE (bar)	WEIGHT (Kg)	R	I	NOTE
S1025872	BEND LLH 125SC55 90G R275 IMPACT	3+12	85	15.6	235	275	/

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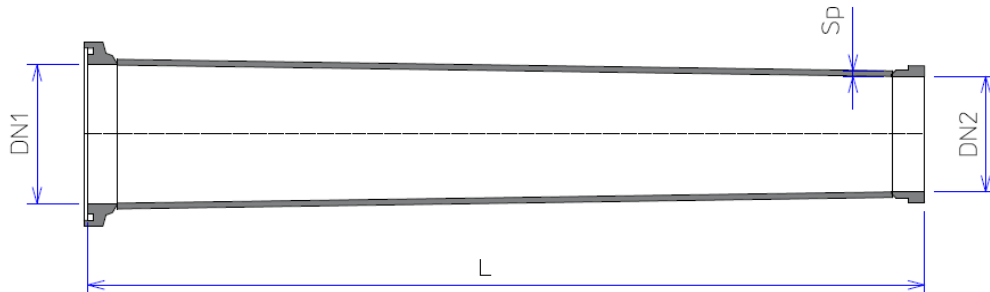
SUMMARY TABLE

TYPE	MATERIAL	USAGE	NOTE
REDU STD	SINGLE LAYER P355 STEEL	GENERAL FOR LOW WEAR RATE	/
REDU TMP	SINGLE LAYER STEEL HARDENED TO 50 HRC	GENERAL FOR MEDIUM TO HIGH WEAR RATE	/
REDU LLN	DOUBLE LAYER 3+7 mm STEEL INNER LAYER HARDENED TO 65 HRC	FOR TRUCK PUMP VERY HIGH WEAR RATE	/
REDU LLH	DOUBLE LAYER 3+7 mm CHROMIUM CARBIDE INNER LAYER	FOR TRUCK PUMP EXTREME WEAR RATE	/

SINGLE LAYER STEEL (STD)

PIPE MATERIAL: STEEL P355 EN10217- SEAMLESS PIPE

COLLARS MATERIAL: STEEL E355 EN10305



DN1/DN2 (mm/mm)-(in/in)	Sp (mm)	L (mm) FROM-TO	WORKING PRESSURE (bar)*		
175/150 - 7/6	7	600-2000	85/130		
175/125 - 7/5	7	800-2000	85/130		
150/125 - 6/5	7	400-3000	85/130		
150/100 - 6/4	7	1000-2000	85/130		
125/112 - 5/4.5	7	1000-1500	85/130		
125/100 - 5/4	7	400-3000	85/130		
125/75 - 5/3	7	1000-1600	85/130		
125/65 - 5/2.5	7	1000	85/130		
112/100 - 4.5/4	7	1500	85/130		
100/75 - 4/3	7	500-1600	85/130		
100/65 - 4/2.5	7	500 - 1000 - 1500	85/130		
100/50 - 4/2	7	500 - 1000 - 1500	85/130		
75/65 - 3/2.5	7	500	85/130		
75/50 - 3/2	7	500 - 1000	85/130		
65/50 - 2.5/2	7	500	85/130		

* WORKING PRESSURE OF 85 bar IS INTENDED WITH STANDARD COLLARS "SC"

 * WORKING PRESSURE OF 130-200 bar IS INTENDED WITH HIGH PRESSURE COLLARS
 (CIFA/SCHWING/PUTZMEISTER)

ESEMPIO NOMENCLATURA:

-REDU STD 150ZXM6/125SC55 L1200

TYPE+DN1+COLLARS ID+/+DN2+COLLARS ID+LENGHT

-REDU STD 125FZ50/100SC45 L1000

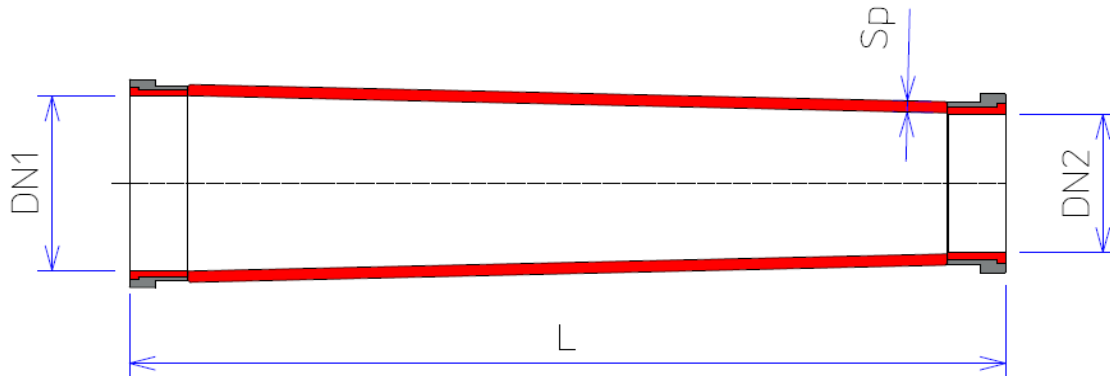
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SINGLE LAYER HARDENED (TMP)

DOUBLE LAYER COLLARS WITH 62HRC HARDENED INSERT
 INDUCTION HARDENED PIPE WITH 55HRC MEDIUM HARDNESS
 COOL WELDING TECHNOLOGY TO PRESERVE THE HARDNESS UNDER WELDING SEAM



DN1/DN2 (mm/mm)-(in/in)	Sp (mm)	L (mm) FROM-TO	WORKING PRESSURE (bar)*		
175/150 - 7/6	6	600-2000	85/130		
150/125 - 6/5	6	400-3000	85/130		
125/112 - 5/4.5	6	1000-1500	85/130		
125/100 - 5/4	6	400-3000	85/130		

* WORKING PRESSURE OF 85 bar IS INTENDED WITH STANDARD COLLARS "SC"

* WORKING PRESSURE OF 130-200 bar IS INTENDED WITH HIGH PRESSURE COLLARS
(CIFA/SCHWING/PUTZMEISTER)

ESEMPIO NOMENCLATURA:

-REDU TMP 150ZXM6/125SC55 L1200

TYPE+DN1+COLLARS ID+DN2+COLLARS ID+LENGHT

-REDU TMP 125FZ50/100SC45 L1000

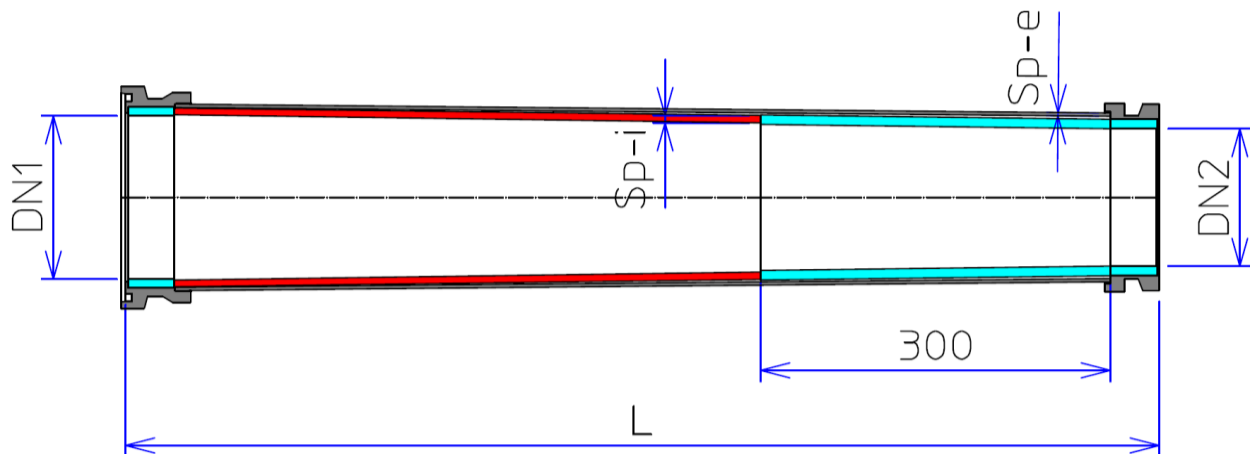
TYPE+DN1+COLLARS ID+DN2+COLLARS ID+LENGHT

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LONG LIFE NORMAL DOUBLE LAYER (LLN)

DOUBLE LAYER COLLARS WITH CHROMIUM CARBIDE INSERT
 INTERNAL CONE IN HARDENED STEEL 65 HRC
 COOL WELDING TECHNOLOGY TO PRESERVE THE HARDNESS UNDER WELDING SEAM



DN1/DN2 (mm/mm)-(in/in)	Sp (mm)	L (mm) FROM-TO	WORKING PRESSURE (bar)*		
175/150 - 7/6	3+7	800-1200	85		
175/125 - 7/5	3+7	1000-1200	85		
150/125 - 6/5	3+7	400-3000	85		
125/112 - 5/4.5	3+7	400-3000	85		
125/117 - 5/4.75	3+7	1500-3000	85		
125/100 - 5/4	3+7	600-3000	85		
112/100 - 4.5/4	3+7	1500	85		

* WORKING PRESSURE OF 85 bar IS INTENDED WITH STANDARD COLLARS "SC"

* WORKING PRESSURE OF 130-200 bar IS INTENDED WITH HIGH PRESSURE COLLARS
(CIFA/SCHWING/PUTZMEISTER)

ESEMPIO NOMENCLATURA:

-REDU LLN 150ZXM6/125SC55 L1200

TYPE+DN1+COLLARS ID+DN2+COLLARS ID+LENGHT

-REDU LLN 125FZ50/100SC45 L1000

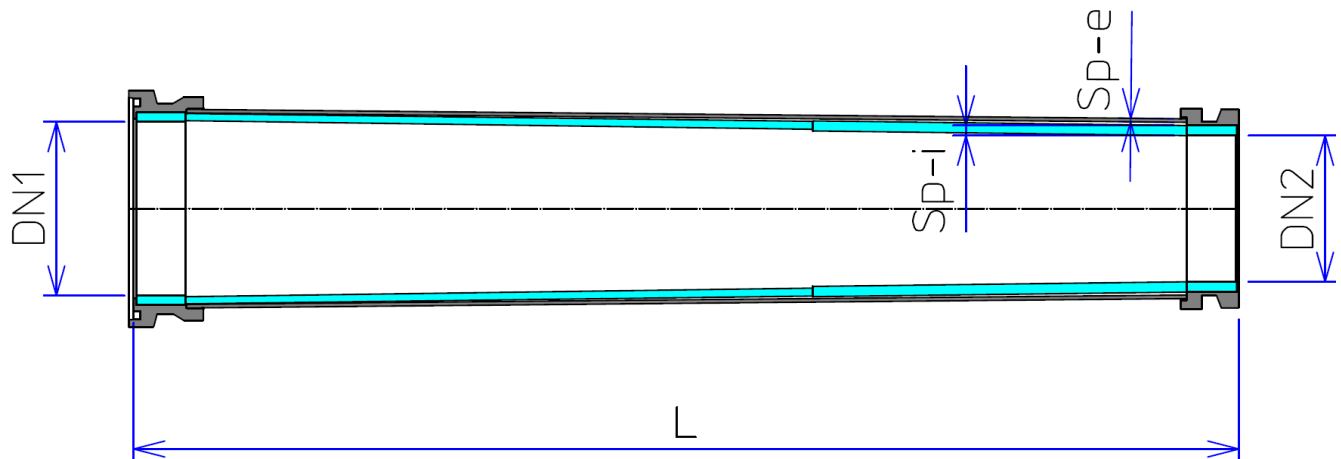
TYPE+DN1+COLLARS ID+DN2+COLLARS ID+LENGHT

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LONG LIFE HARD DOUBLE LAYER (LLH)

DOUBLE LAYER COLLARS WITH CHROMIUM CARBIDE INSERT
 DOUBLE LAYER CONE WITH FULL CHROMIUM CARBIDE INTERNAL LAYER



DN1/DN2 (mm/mm)-(in/in)	Sp (mm)	L (mm) FROM-TO	WORKING PRESSURE (bar)*		
150/125 - 6/5	3+7	1000-3000	85		
125/100 - 5/4	3+7	1200-3000	85		

* WORKING PRESSURE OF 85 bar IS INTENDED WITH STANDARD COLLARS "SC"

* WORKING PRESSURE OF 130-200 bar IS INTENDED WITH HIGH PRESSURE COLLARS
 (CIFA/SCHWING/PUTZMEISTER)

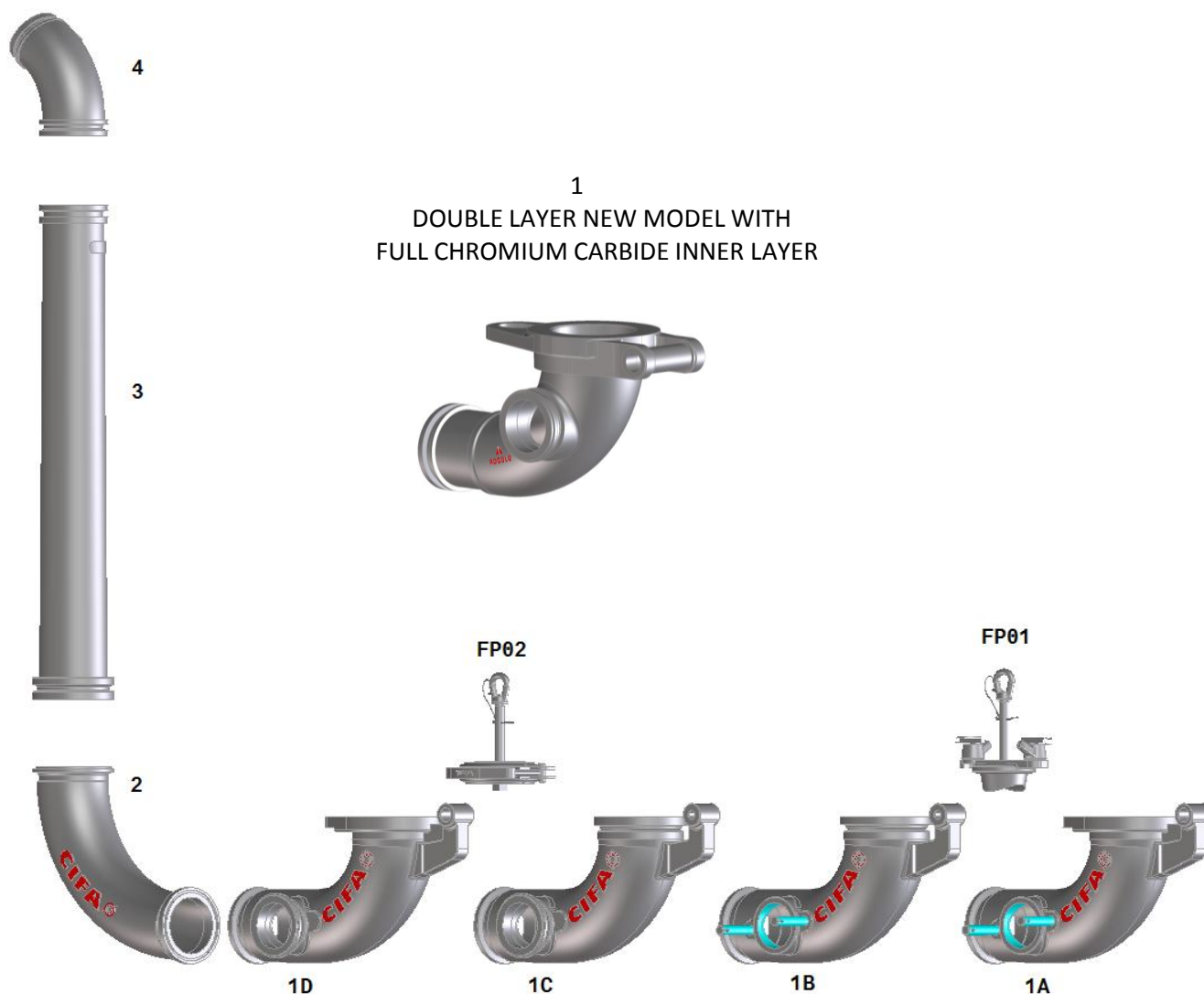
ESEMPIO NOMENCLATURA:

-REDU LLH 150ZXM6/125SC55 L1200
 -REDU LLH 125FZ50/100SC45 L1000

TYPE+DN1+COLLARS ID+DN2+COLLARS ID+LENGHT
 TYPE+DN1+COLLARS ID+DN2+COLLARS ID+LENGHT

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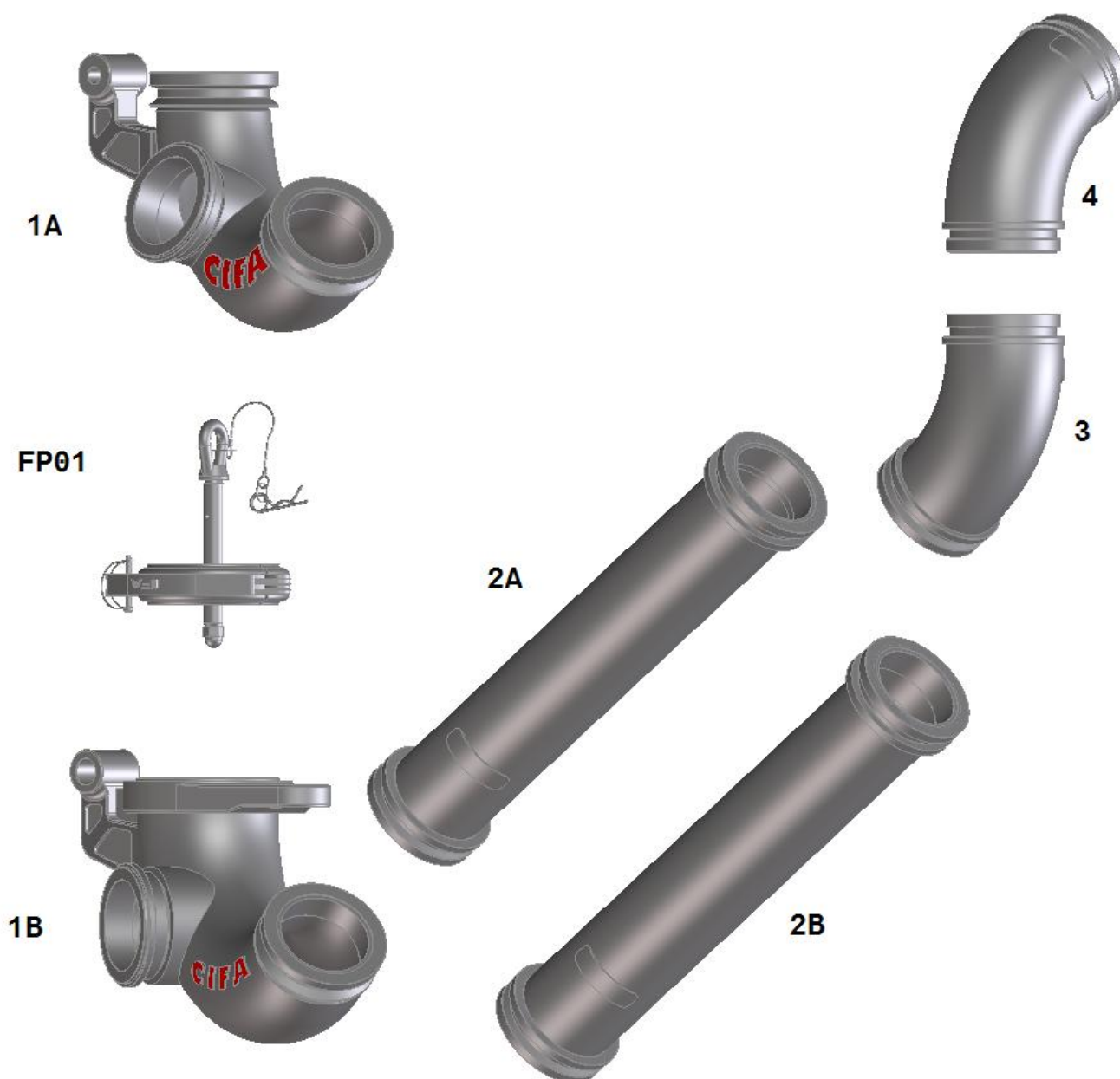
CIFA TRUCK PUMPS


REF	COD	DESCRIPTION				
FP01	S2040908	SCREW FIXING TYPE BALL STOP KIT (PATENTED)				
FP02	S2040909	COUPLING FIXING BALL STOP KIT				
REF	DESCRIPTION		COD MN	COD LLN	COD LLH	NOTE
1	BEND 175FLAN/150MP60 90G EXIT 230-260		/	/	S2028183	/
1A	BEND 175FLAN/150MP60 90G EXIT BW S9		S1030242	S1026325	/	/
1B	BEND 175FZ70/150MP60 90G EXIT BW S8		S1030250	S1026508	/	/
1C	BEND 175FZ70/150MP60 90G EXIT S8		S1015708	/	S2021765	/
1D	BEND 175FLAN/150MP60 90G EXIT S9		S1023245	/	S2021763	/
2	BEND 150FP60/150MZ60 90G EXIT CIFA		S1015711	S1026130	S2021764	/
3	REDU 150FZ60/125MP50 L1287		/	S1026125	S2003311	/
4	BEND LLH 125SC55/125FP50 30G R235		/	/	S2011513	/
	BEND LLH 125SC55/125FP50 35G R315				S2005811	
	BEND LLH 125SC55/125FP50 42G R235 SAG				S1026121	
	BEND LLH 125SC55/125FP50 42G R315				S1032399	
	BEND LLH 125SC55/125FP50 50G R235				S2029322	
	BEND LLH 125SC55/125FP50 55G R235				S2003041	

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CIFA PUMP MIXER

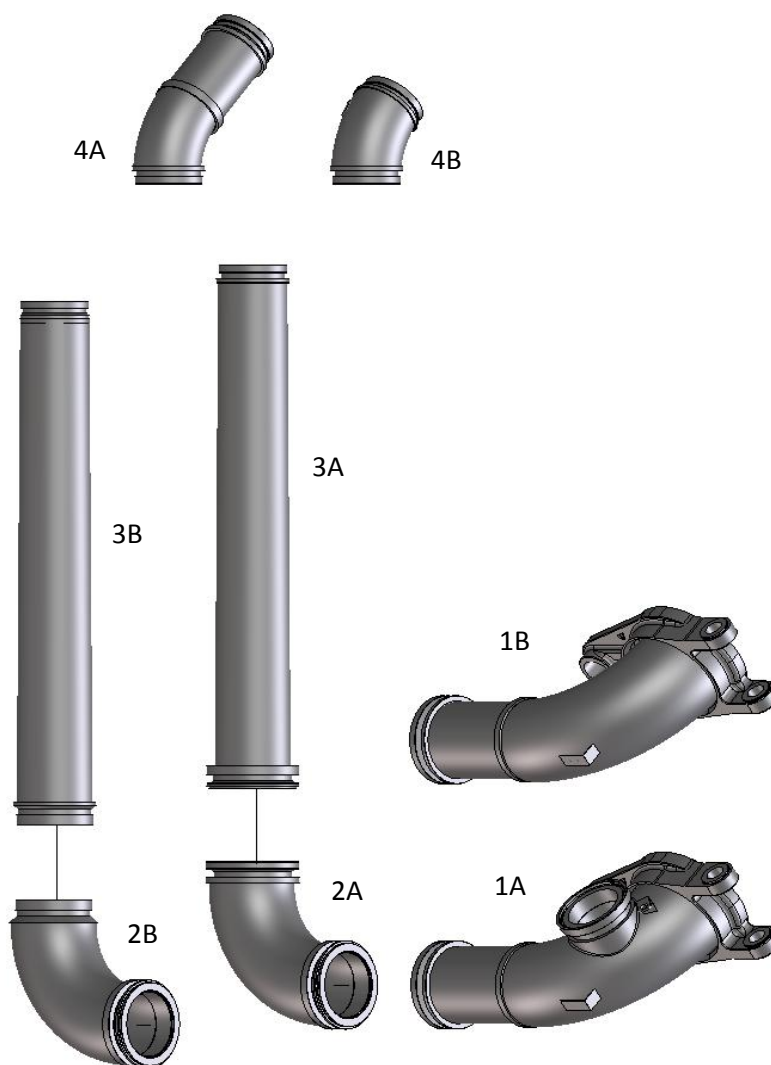


REF	COD	DESCRIPTION
FP01	S2040909	COUPLING FIXING BALL STOP KIT

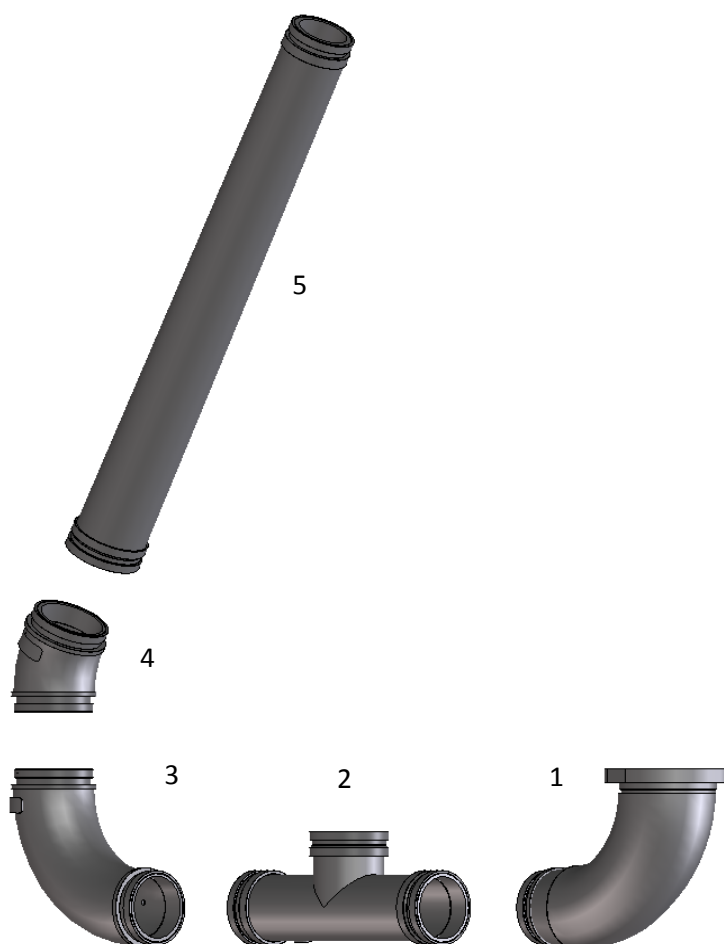
REF	DESCRIPTION	COD STD SP7	COD LLN	COD LLH	NOTE
1A	BEND LLN 125FZ50/125MP50 125G EXIT S7	/	S2015852	/	/
1B	BEND LLN 150FLAN/125MP50 EXIT 125G MK S7	/	S2015890	/	/
2A	PIPE 125FP50/125MP50 L785	S000239266	/	S1037177	/
2B	PIPE 125FP50/125MP50 L815	S1010648	/	S1035920	/
3	BEND 125SC55/125FP50 55G R235	S000239267	S1035914	S2003041	/
4	BEND 125SC55 60G R235	/	S1026114	S2002358	X CARRO

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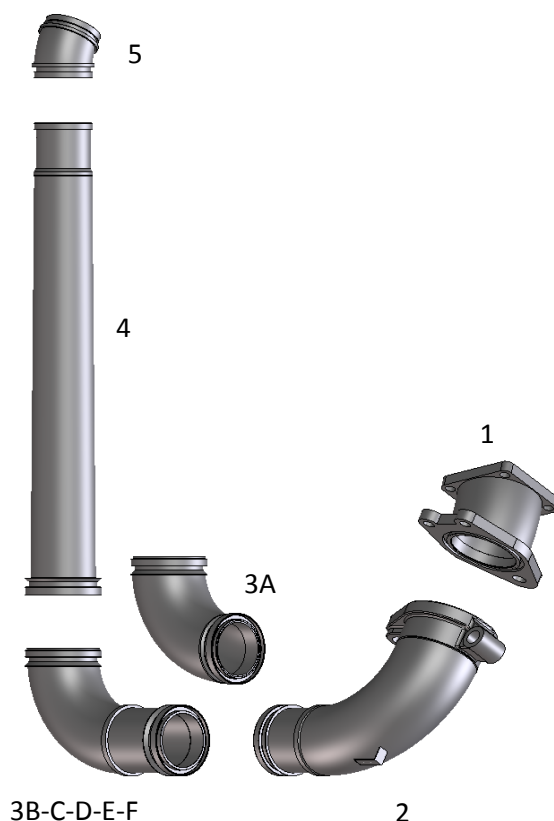
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PUTZMEISTER TRUCK PUMPS


REF	DESCRIPTION	COD Mn	COD LLN	COD LLH	NOTE
1A	BEND 175FLAN/150ZXF6 90G EXIT + FP	S2023216	/	S2031069	/
1B	BEND 175FLAN/150ZXF6 90G EXIT NO FP	/	/	S2031070	/
2A	BEND 150ZXF6/150ZXM6 90G EXIT PZ	S2023218	/	S2031066	/
2B	BEND 150ZXM6/150SK60 EXIT PZ	S2023217	/	/	/
3A	REDU 150ZXM6/125SC55 L1200	/	S2030569	S2030540	/
3B	REDU 150SK60/125SC55 L1200	/	S2030560	S2030535	/
4A	BEND 125SC55 45G R235 SAG PZ	S2026460	/	S2030312	/
4B	BEND 125SC55 45G R235	S2023200	S2030346	S2001069	/

PUTZMEISTER PUMP MIXER


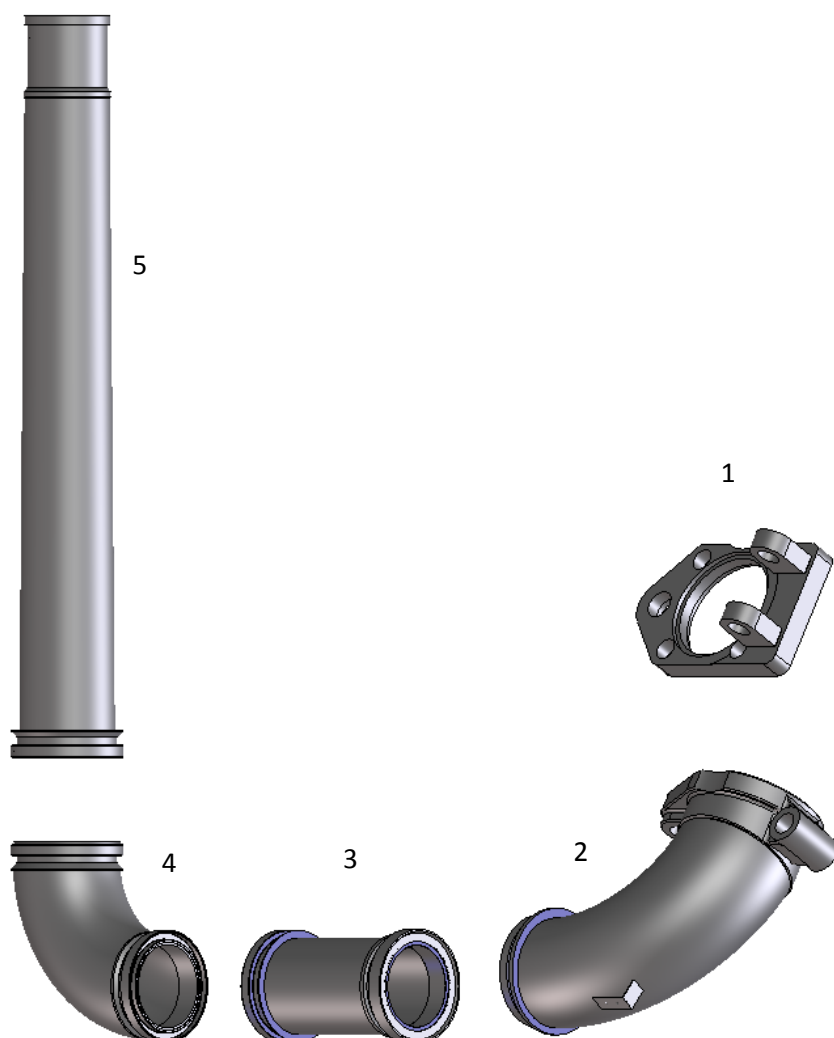
REF	DESCRIPTION	COD STD	COD LLN	COD LLT	COD LLH
1	BEND LLN 150FLAN/125SC55 90G EXIT PUMI	/	S2031072	/	/
2	PIPE 125SC55 L500 +FERMO PALLA	/	/	/	S2032892
3	BEND 125SC55 90G R275	S000231381	S2030349	/	S1025876
4	BEND 125SC55 30G R235 SER	/	S2030341	S2030327	/
5	REDU 125SC55/100SC45 L1900	S2039329	S2030547	/	/

SCHWING TRUCK PUMPS (TYPE 1)


REF	DESCRIPTION	COD Mn	COD LLN	COD LLH	NOTE
1	BEND LLH 175FLAN/175FLAN 14G EXIT SW	S2023221	/	S2031071	/
2	BEND LLH 175FLAN/150SM60 90G EXIT SW OLD	S2023222	/	S2031068	/
3A	BEND LLH 150SF60/150SM60 90G EXIT SW	S2031076	/	S2031060	/
3B	BEND MN 150SF60/150SM60 90G L319 SW	/	/	S2031061	/
3C	BEND MN 150SF60/150SM60 90G L400 SW	/	/	S2031062	/
3D	BEND MN 150SF60/150SM60 90G L425 SW	/	/	S2031063	/
3E	BEND MN 150SF60/150SM60 90G L430 SW	S2023224	/	S2031064	/
3F	BEND MN 150SF60/150SM60 90G L630 SW	/	/	S2031065	/
4	REDU LLN 150SF60/125SC55 L1000	/	S2040861	/	/
	REDU LLN 150SF60/125SC55 L1240	/	S2040862	/	/
	REDU LLN 150SF60/125SC55 L1290	/	S2030557	/	/
	REDU LLN 150SF60/125SC55 L1330	/	S2030563	/	/
	REDU LLN 150SF60/125SC55 L1460	/	S2030564	/	/
	REDU LLN 150SF60/125SC55 L1500	/	S2030565	S2030537	/
	REDU LLN 150SF60/125SC55 L1550	/	S2030566	/	/
	REDU LLH 150SF60/125SC55 L1600	/	S2030558	S2030538	/
	REDU LLN 150SF60/125SC55 L1650	/	S2040863	/	/
	REDU LLN 150SF60/125SC55 L1885	/	S2030567	/	/
	REDU LLN 150SF60/125SC55 L3000	/	S2030559	/	/
5	BEND LLH 125SC55 30G R235	/	/	S2030308	/
	BEND LLH 125SC55 40G R235 SAG			S2030311	
	BEND LLH 125SC55 45G R235 SAG			S2030313	
	BEND LLH 125SC55 50G R235 SAG			S2030314	
	BEND LLH 125SC55 52.5G R235			S2036693	

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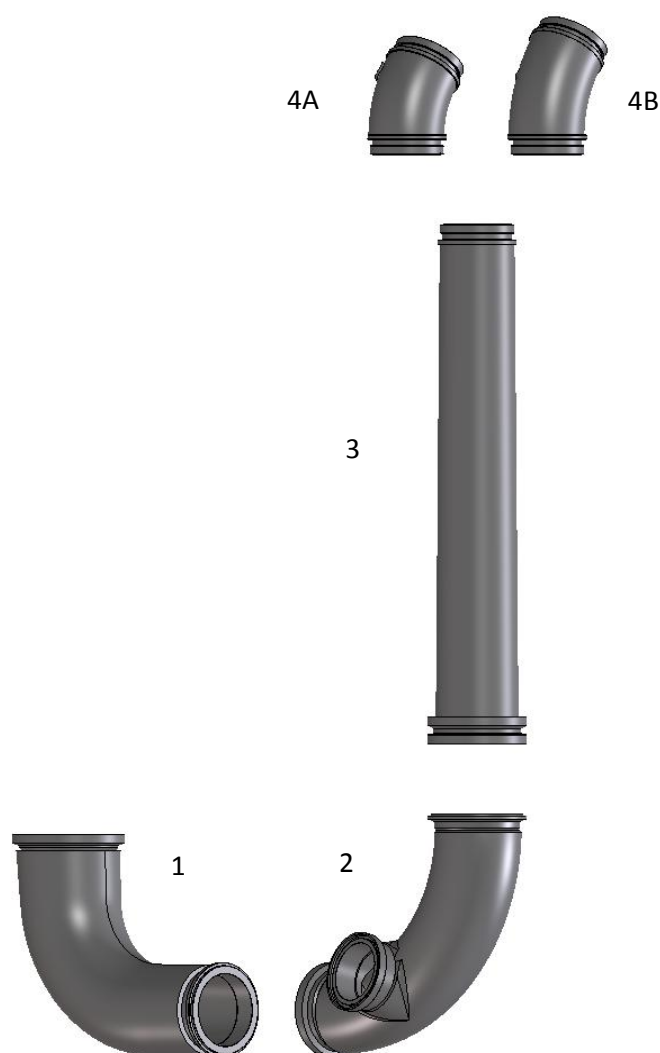
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SCHWING TRUCK PUMPS (TYPE 2)


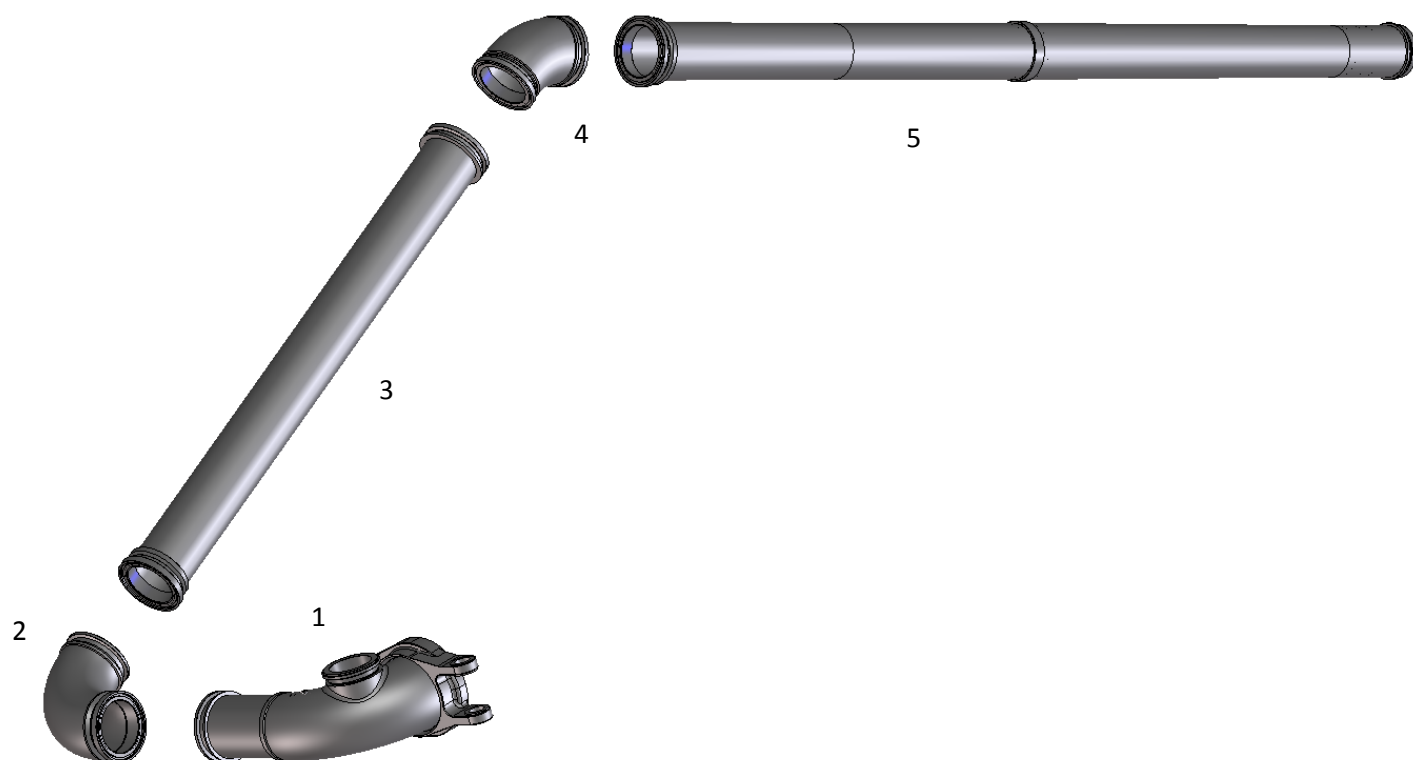
REF	DESCRIPTION	COD Mn	COD LLN	COD LLH	NOTE
1	PIASTRA FISSAGGIO EXIT BEND SW CT	S2023225	/	/	/
2	BEND LLH 175FLAN/150SFU6 90G EXIT SW NEW	S2023223	/	S2031067	/
3	PIPE LLH 150SMU6/150SM60 Lxxx	RICHIESTA LUNGHEZZA			
4	BEND LLH 150SF60/150SM60 90G EXIT SW	S2031076	/	S2031060	/
5	REDU LLN 150SF60/125SC55 L1000	/	S2040861	/	/
	REDU LLN 150SF60/125SC55 L1240	/	S2040862	/	/
	REDU LLN 150SF60/125SC55 L1290	/	S2030557	/	/
	REDU LLN 150SF60/125SC55 L1330	/	S2030563	/	/
	REDU LLN 150SF60/125SC55 L1460	/	S2030564	/	/
	REDU LLN 150SF60/125SC55 L1500	/	S2030565	S2030537	/
	REDU LLN 150SF60/125SC55 L1550	/	S2030566	/	/
	REDU LLH 150SF60/125SC55 L1600	/	S2030558	S2030538	/
	REDU LLN 150SF60/125SC55 L1650	/	S2040863	/	/
	REDU LLN 150SF60/125SC55 L1885	/	S2030567	/	/
	REDU LLN 150SF60/125SC55 L3000	/	S2030559	/	/

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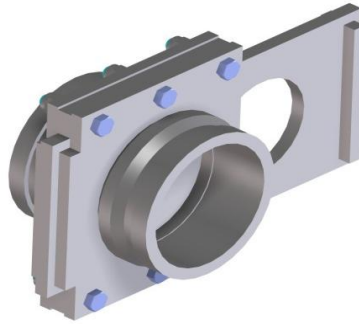
SERMAC TRUCK PUMPS (TYPE 1)


REF	DESCRIPTION	COD STD	COD Mn	COD LLN	COD LLH
1	BEND MN 175FZ70/150MZ60 90G EXIT SER	/	S2031077	/	/
2	BEND MN 150FZ60/150MZ60 90G EXIT SER +FP	S2031083	S2031075	/	/
3	REDU LLN 150FZ60/125SC55 L1070	S2030636	/	S2030554	S2030532
4A	BEND LLH 125SC55 35G R235 SER	S2030376	/	S2030343	S2007997
4B	BEND LLH 125SC55 35G R315 SER	S2030377	/	S2030344	S2030310

SERMAC TRUCK PUMPS (TYPE 2)


REF	DESCRIPTION	COD LLH	NOTE
1	BEND LLH 175FLAN/150MZ60 90G EXIT SER	S2031136	/
2	BEND LLH 150FZ60/150MZ60 90G R280	S2032852	/
3	PIPE LLH 150FZ60/150MP60 L1725	S2032877	/
4	BEND LLH 150FP60/150MP60 45G R228	S2032851	/
5	REDU LLH 150FP60/125SC55 L3000	S2031223	/

MANUAL SHUTOFF VALVE



CODE	DESCRIPTION	DN (mm/in)	WORKING PRESSURE (bar)	NET WEIGHT (Kg)	NOTE
S2032894	GHIGLIOTTINA MANUALE SC20	50/2	85	10	/
S2032893	GHIGLIOTTINA MANUALE SC25	50/2	85	10	/
S2032895	GHIGLIOTTINA MANUALE SC30	65/2.5	85	10	/
S2040477	GHIGLIOTTINA MANUALE SC34	75/3	85	10	/
S2032896	GHIGLIOTTINA MANUALE SC40	100/4	85	15	/
S2013444	GHIGLIOTTINA MANUALE SC45	100/4	85	15	/
S2013235	GHIGLIOTTINA MANUALE SC55	125/5	85	15	/
S000222201	GHIGLIOTTINA MANUALE FZ50/MZ50	125/5	85	15	/
K2035111	GHIGLIOTTINA MANUALE HD50	125/5	85	15	/

HYDRAULIC SHUTOFF VALVE- 1 CYLINDER



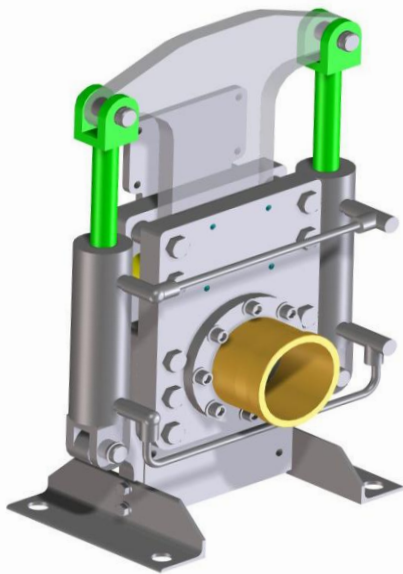
- 70 mm BORE CYLINDER
- HYDRAULIC HAND PUMP
- INTERNAL SEALING SYSTEM
- HARDENED WEAR RINGS ON MOVING PARTS
- CONFIGURATION WITH ALL KIND OF 5" COLLAR
- SUITABLE FOR LAY DOWN AND RISE PUMPING UNDER 100 m HEIGHT AND 85 bar PRESSURE

CODE	DESCRIPTION	DN (mm/in)	MAX OPERATING CONCRETE PRESSURE (bar)	MAX OPERATING OIL PRESSURE (bar)	NET WEIGHT (Kg)
L2013338	HYDRAULIC SHUTOFF 1 CYLINDER	125/5	85	250	110

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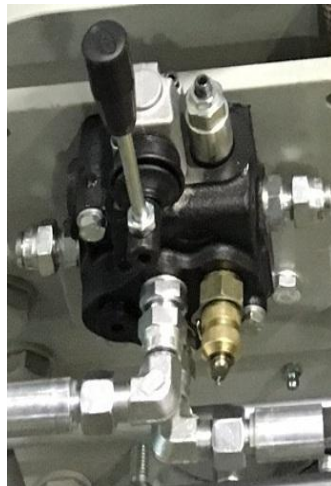
HYDRAULIC SHUTOFF VALVE - 2 CYLINDERS



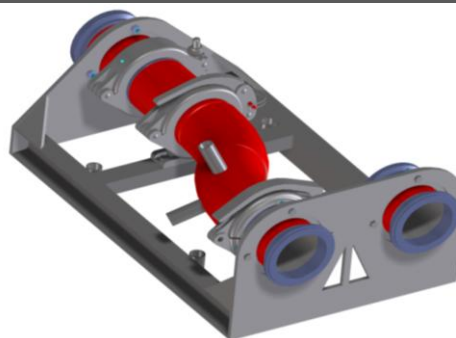
- TWO $\varnothing 70$ mm BORE CYLINDERS
- INTERNAL SEALING SYSTEM
- HARDENED WEAR RINGS ON MOVING PARTS
- THREE HYDRAULIC CONFIGURATIONS
- CONFIGURATION WITH ALL KIND OF 5" COLLAR
- SUITABLE FOR HIGH PRESSURE LAY DOWN AND RISE PUMPING

CODE	DESCRIPTION	DN (mm/in)	MAX OPERATING CONCRETE PRESSURE (bar)	MAX OPERATING OIL PRESSURE (bar)	NET WEIGHT (Kg)
S2023276	HYDRAULIC SHUTOFF 2 CYLINDER	125/5	150	250	140

HYDRAULIC CONFIGURATION



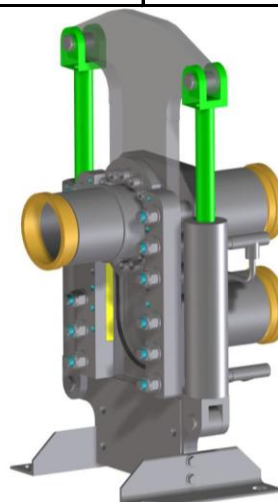
CODE	DESCRIPTION	CODE	DESCRIPTION	CODE	DESCRIPTION
S2040963	HAND PUMP KIT	S2040964	DISTRIBUTOR KIT	S2040965	POWER PACK KIT
HAND PUMP -MAX PRESSURE 250 bar -1 TO 2 L OIL RESERVOIR		MANUAL DISTRIBUTOR 3/8", OPEN CENTRE DESIGN		ELECTRIC POWER PACK -4 Kw POWER -200 bar OIL PRESSURE	

MANUAL DEVIATOR 1 IN - 2 OUT


CODE	DESCRIPTION	DN (mm/in)	MAX OPERATING PRESSURE (bar)	NET WEIGHT (Kg)	NOTE
L1045844	MANUAL DEVIATOR SC55 LIGHT	125/5	85	70	/
L2007896	MANUAL DEVIATOR SC55 LLN	125/5	85	102	/
L1044797	MANUAL DEVIATOR FZ50/MZ50 LLN	125/5	130	102	/

HYDRAULIC DEVIATOR 1 IN - 2 OUT

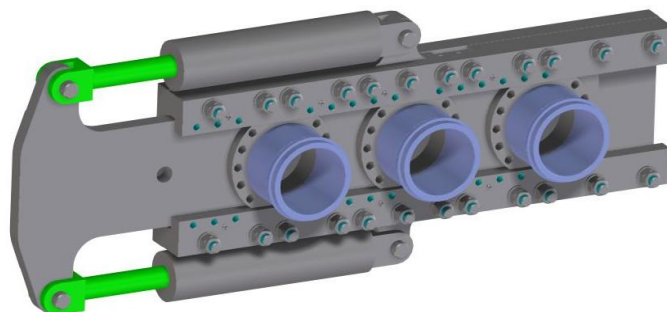
-TWO $\phi 70$ mm BORE CYLINDERS
 -INTERNAL SEALING SYSTEM
 -HARDENED WEAR RINGS ON MOVING PARTS
 -THREE HYDRAULIC CONFIGURATIONS
 -CONFIGURATION WITH ALL KIND OF 5" COLLAR
 -SUITABLE FOR HIGH PRESSURE LAY DOWN AND RISE PUMPING



CODE	DESCRIPTION	DN (mm/in)	MAX OPERATING CONCRETE PRESSURE (bar)	MAX OPERATING OIL PRESSURE (bar)	NET WEIGHT (Kg)
L2032212	HYDRAULIC DEVIATOR 1 IN - 2 OUT	125/5	150	250	150

HYDRAULIC DEVIATOR 3 IN - 2 OUT

-TWO $\phi 70$ mm BORE CYLINDERS
 -INTERNAL SEALING SYSTEM
 -HARDENED WEAR RINGS ON MOVING PARTS
 -THREE HYDRAULIC CONFIGURATIONS
 -CONFIGURATION WITH ALL KIND OF 5" COLLAR
 -SUITABLE FOR HIGH PRESSURE LAY DOWN AND RISE PUMPING
 -IT ALLOWS TO SWITCH BETWEEN TWO PUMPING LINES PUMPING IN ONE AND CLEANING THE OTHER AT THE SAME TIME



CODE	DESCRIPTION	DN (mm/in)	MAX OPERATING CONCRETE PRESSURE (bar)	MAX OPERATING OIL PRESSURE (bar)	NET WEIGHT (Kg)
L2040476	HYDRAULIC DEVIATOR 3 IN - 2 OUT	125/5	150	250	260

DISTRIBUTION BOOMS SHUT-OFF VALVES

THESE VALVES ARE USUALLY MOUNTED ON TRUCK PUMPS BOOM TO ARREST THE CONCRETE FLOW WHEN PUMPING IS STOPPED.



CONTROL UNIT

IT IS CONNECTED TO THE CONTROL UNIT OF THE MACHINE, WHEN THE PUMPING SIGNAL IS "ON" IT OPENS THE SHUTOFF, WHEN THE PUMPING SIGNAL IS "OFF" IT CLOSSES THE SHUTOFF TO STOP THE CONCRETE FLOW

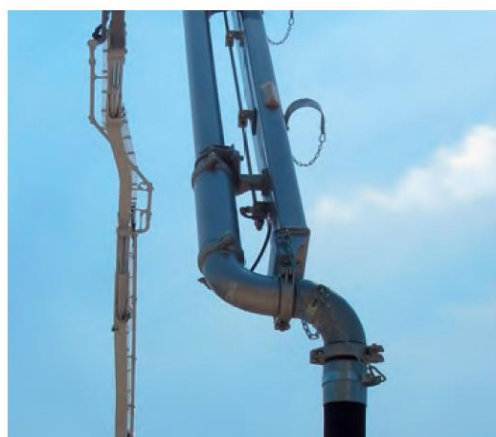
KIT COMPOSITION

- SHUT-OFF VALVE
- CONTROL UNIT

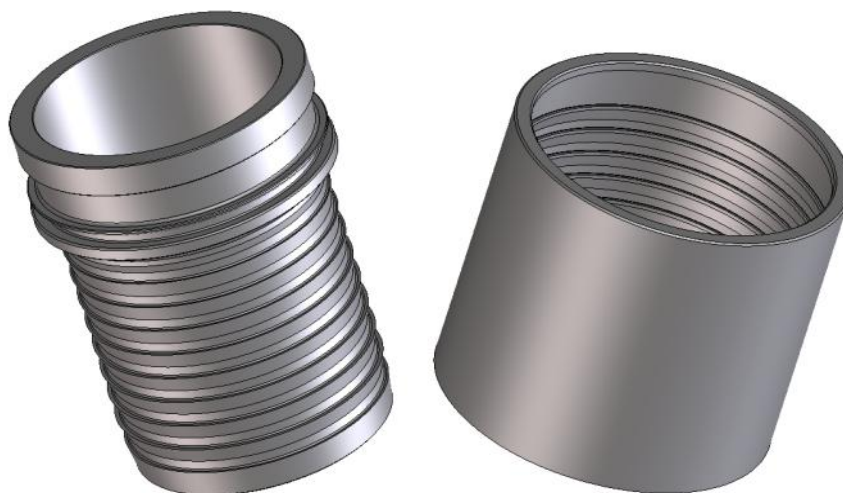
HOSE SHUTOFF



IN LINE SHUTOFF



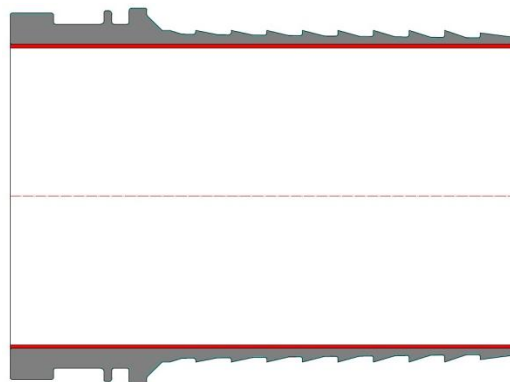
CODE	DESCRIPTION	AIR PRESSURE (bar)	WEIGHT (Kg)	CODE	DESCRIPTION	AIR PRESSURE (bar)	WEIGHT (Kg)
L2014472	SHUT-OFF VALVE LIGHT 4" L200	4	4.7	S2032899	SHUT-OFF VALVE 100SC45 L600	4	14.5
L2020429	SHUT-OFF VALVE LIGHT 5" L200	4	5	S1036207	SHUT-OFF VALVE 125SC55 L600	4	15.5
S2032973	SHUT-OFF VALVE LIGHT 4" L200 +CENTRALINA	4	5.2	S2040797	SHUT-OFF VALVE 100SC45 L600 +CENTRALINA	4	15
S2032897	SHUT-OFF VALVE LIGHT 5" L200 +CENTRALINA	4	5.5	S2032898	SHUT-OFF VALVE 125SC55 L600 +CENTRALINA	4	16



SURFACE HARDENED HOSE INNER COLLARS

CODE	DESCRIPTION	NET WEIGHT (Kg)
S2040125	COLL INTERNO GOMMONE SC34 CARBONITR.	1.7
S2040124	COLL INTERNO GOMMONE SC45 CARBONITR.	3.3
S2037140	COLL INTERNO GOMMONE SC55 CARBONITR.	3.5
S2040174	COLL INTERNO GOMMONE HD50	3.9

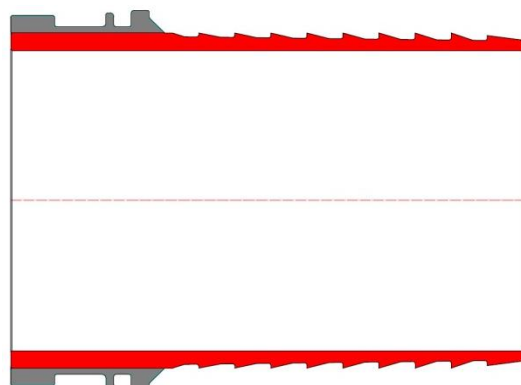
INTERNAL COLLAR WITH SURFACE HARDENING TREATMENT 61 HRC
FOR 0,3 mm DEPTH



FULL HARDENED HOSE INNER COLLARS

CODE	DESCRIPTION	NET WEIGHT (Kg)
S2041260	COLL INTERNO GOMMONE SC45 TEMPRATO	3.3
S2041261	COLL INTERNO GOMMONE SC55 TEMPRATO	3.5

DOUBLE LAYER INTERNAL COLLAR WITH COMPLETE HARDENING AT
60 HRC



ZINC PLATED HOSE OUTER COLLARS

CODE	DESCRIPTION	NET WEIGHT (Kg)
S2038583	COLL EST ZINC GOMMONE DN75	2
S2038582	COLL EST ZINC GOMMONE DN100	2.3
S2037511	COLL EST ZINC GOMMONE DN125	2.3

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HEAVY DUTY RUBBER HOSE (4 METAL PLIES STRUCTURE)


DN (mm/in)	THICKNESS (mm)	WORKING PRESSURE (bar)	NET WEIGHT (Kg/m)	FWC WEIGHT (KG/m)	NOTE
75/3"	14	86-100	5.7	16.3	/
102/4"	14	86-100	8.0	27.6	/
125/5"	14	86-100	9.8	39.2	/

LIGHT SERIES RUBBER HOSE

DN (mm/in)	THICKNESS (mm)	WORKING PRESSURE (bar)	NET WEIGHT (Kg/m)	FWC WEIGHT (KG/m)	NOTE
75/3"	10	80	4.0	14.6	/
100/4"	10	80	5.2	24.8	/
125/5"	10	80	6.4	35.8	/

AVAILABLE IN ANY LENGHT BIGGER THAN 500 mm
 CONFIGURATION WITH ANY COLLAR TYPE IN 3"-4"-5" RANGE

CLEANING-SPONGE BALL


CODE	DESCRIPTION	CLEANING OF DN (in)	DENSITY(Kg/m ³)
K000400511	PALLA SPUGNA SOFT D100	3"	150
K000400512	PALLA SPUGNA SOFT D125	4"	150
K000400513	PALLA SPUGNA SOFT D150	5"	150
K2038650	PALLA SPUGNA SOFT D150 ORANGE	5"	150
K000400514	PALLA SPUGNA SOFT D175	6"	150
K2038651	PALLA SPUGNA SOFT D175 ORANGE	6"	150
K000202704	PALLA SPUGNA SOFT D200	7"	150
S2033748	PALLA SPUGNA MEDIA D125	4"	200
K1040038	PALLA SPUGNA MEDIA D150	5"	200
K1040036	PALLA SPUGNA MEDIA D175	6"	200
S2033747	PALLA SPUGNA HARD D125	4"	300
K1040037	PALLA SPUGNA HARD D150	5"	300
K1040035	PALLA SPUGNA HARD D175	6"	300

CLEANING-SPONGE PIG


CODE	DESCRIPTION	CLEANING OF DN (in)	DENSITY(Kg/m ³)
S2033785	CILINDRO SPUGNA D125 L150	4"	150
S2033786	CILINDRO SPUGNA D150 L150	5"	150

CLEANING-RUBBER PIG

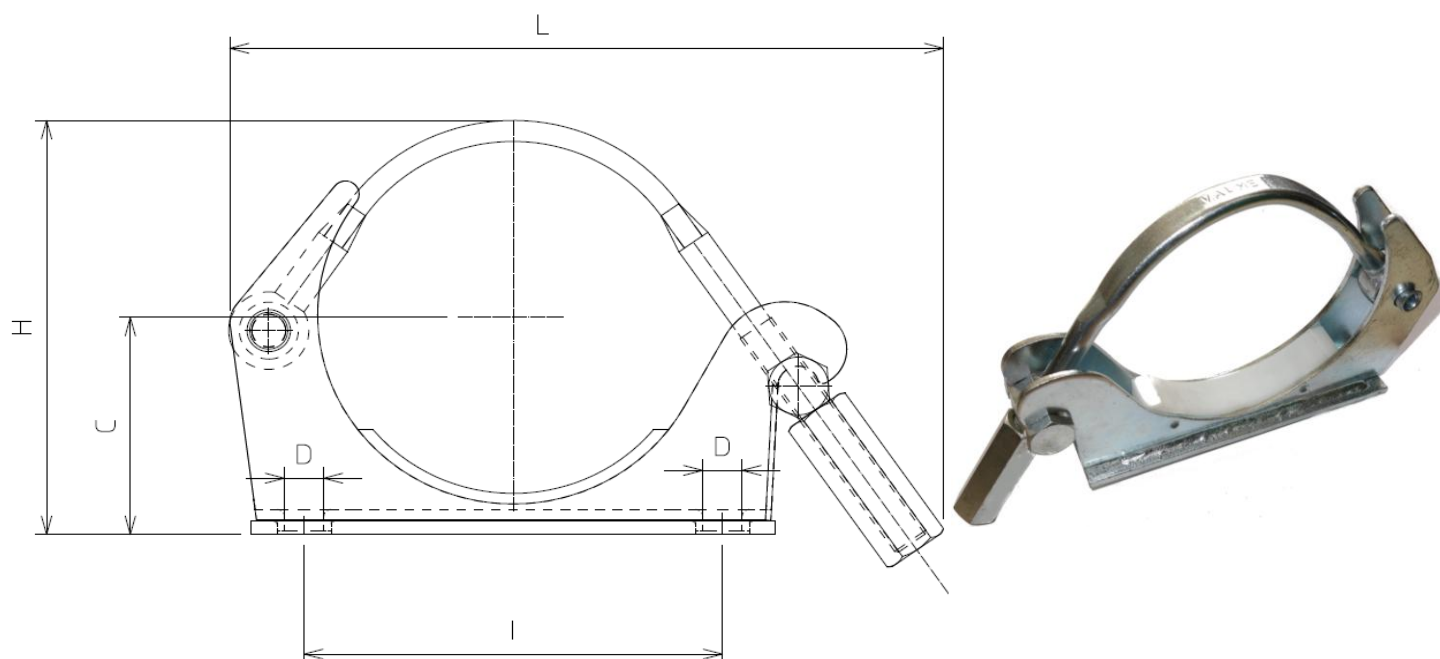

CODE	DESCRIPTION	CLEANING OF DN (in)	DENSITY(Kg/m ³)
S2041012	SILURO IN GOMMA 5in	5"	1.5

CLEANING-BALL CATCHER

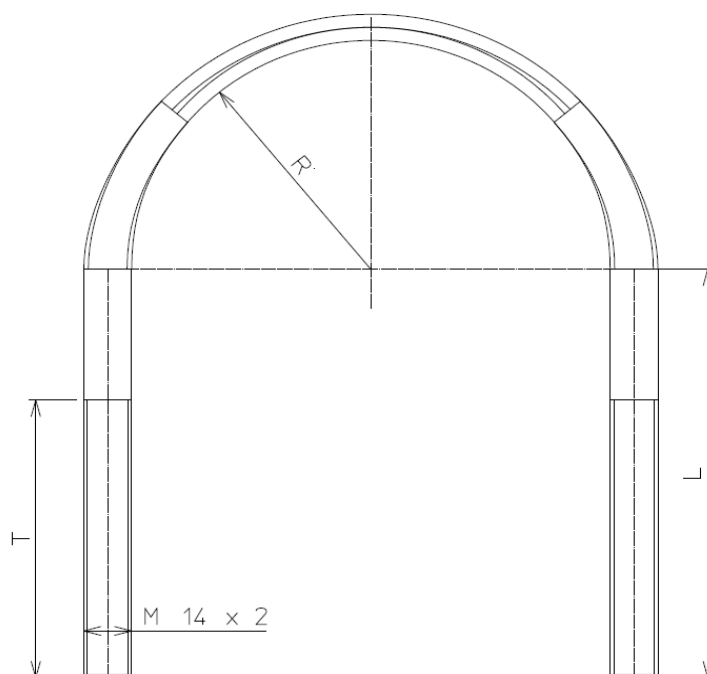
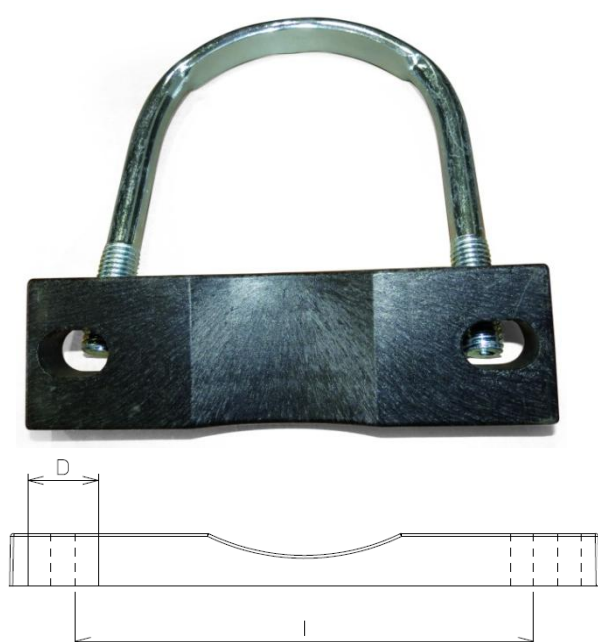

CODE	DESCRIPTION	NET WEIGHT (Kg)	NOTE
S000223559	CESTELLO RACCOGLIPALLA SC45	3.9	/
K2035375	CESTELLO RACCOGLIPALLA SC55	4.4	/

CLEANING PORT PIPE


CODE	DESCRIPTION	NET WEIGHT (Kg)	NOTE
S2040922	TUBO LAVAGGIO SC45 L500 2 ATTACCHI	7	/
S2017408	TUBO LAVAGGIO SC55 L500 2 ATTACCHI	8	/

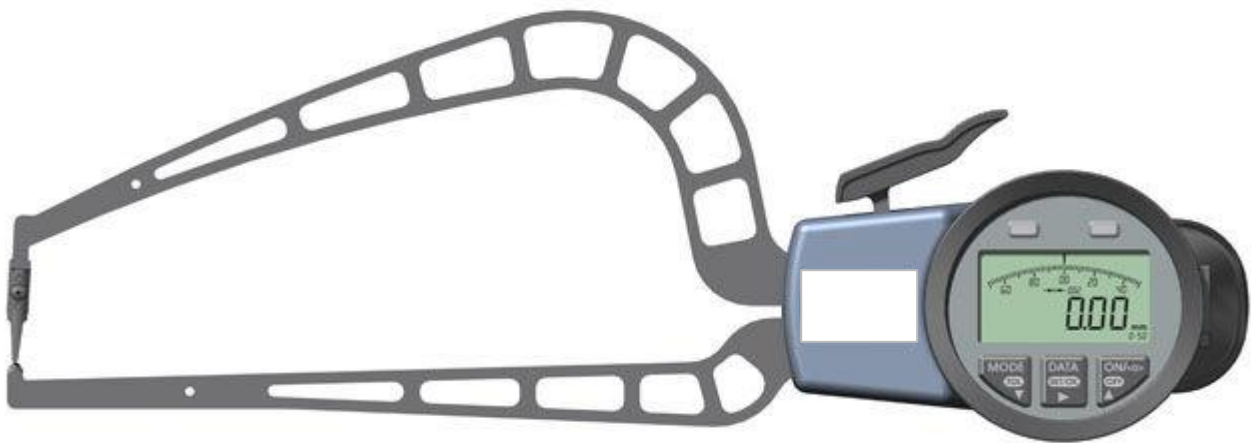


CODE	DESCRIPTION	WEIGHT (Kg)	I	D	C	H	L
K000235240	SUPPORTO A UNGHIA 4" X TUB D108-114	1	128	14.5	68	133	250
K000234709	SUPPORTO A UNGHIA 5" X TUB D133-139	1.9	154	14.5	83	158	263



CODE	DESCRIPTION	WEIGHT (Kg)	I	D	R	T	L
S000234705	CAVALLOTTI A U 4" X TUB D108-114	0.3	/	/	57	85	130
K000234707	SELLA DA 4"	0.05	123	16	/	/	/
S000234706	CAVALLOTTI A U 5" X TUB D133-139	0.4	/	/	70	85	125
K000234708	SELLA DA 5"	0.06	150	16	/	/	/

PIPE WALL THICKNESS GAUGE



THIS IS THE BEST INSTRUMENT TO MEASURE THE THICKNESS OF PIPES, SPECIALLY NEAR THE FLANGES IN THE MOST CRITICAL WEAR AREA.

IT IS THE ONLY AFFORDABLE WAY TO CHECK THE DOUBLE LAYER PIPES THICKNESS

ESMPIO DI UTILIZZO SU TUBO (2+2.5)

TUBO NUOVO

TUBO USURATO DA SOSTITUIRE (Sp.2)



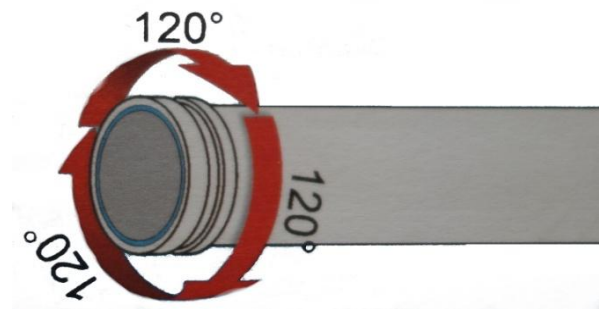
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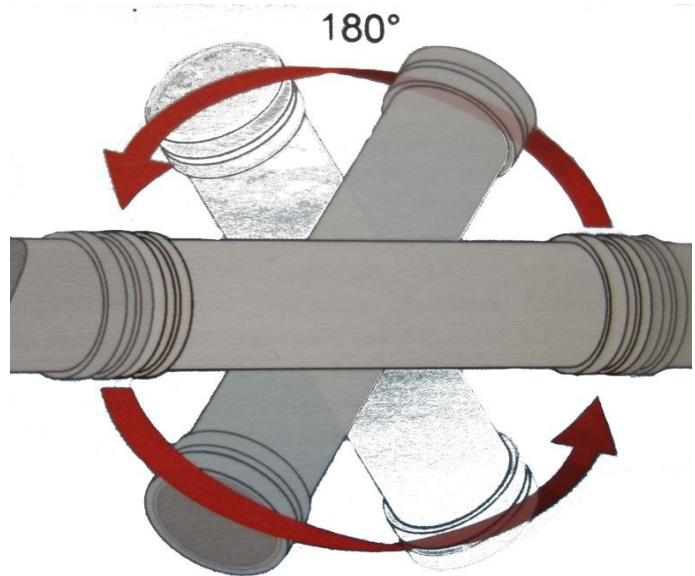
TIPS TO INCREASE SERVICE LIFE

AFTER 15-20% OF PIPE ESTIMATED WEAR LIFE ROTATE
IT ON HIS AXIS OF ABOUT 120°

AFTER 30-35% OF PIPE ESTIMATED WEAR LIFE ROTATE
IT ON HIS AXIS OF ABOUT 120°



AFTER 50% OF ESTIMATED WEAR LIFE INVERT THE PIPE
IN CONCRETE FLOW DIRECTION



AFTER 50% OF ESTIMATED WEAR LIFE INVERT THE
ELBOWS IN CONCRETE FLOW DIRECTION

