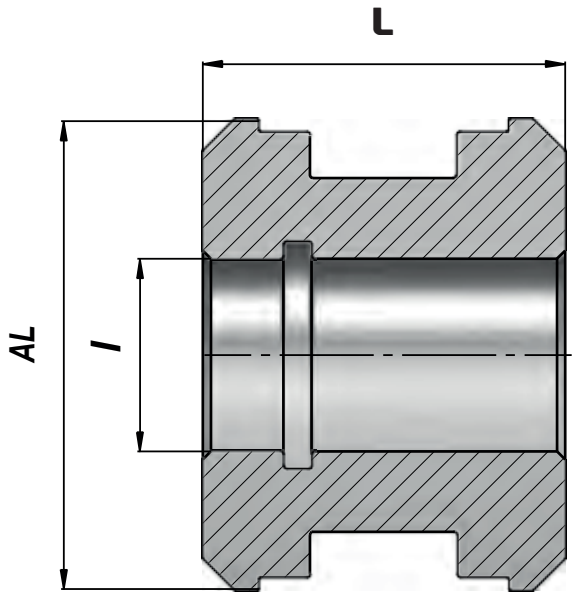
PISTON HEAD BUSH

HBF

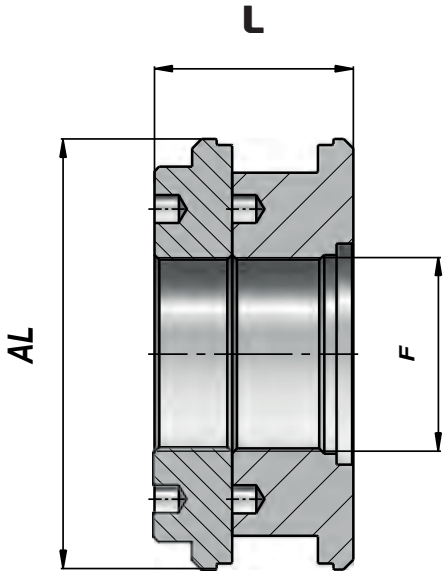
HYDRAULIC BUSINESS FORCE

PISTON

WPBK				
Code	ØAL	ØI-F	L	kg
WPBK-56	30	13	24,7	0,02
WPBK-57	32	13	30	0,10
WPBK-58	32	15	30	0,09
WPBK-59	35	15	40	0,16
WPBK-60	40	15	40	0,23
WPBK-61	45	15	40	0,31
WPBK-62	50	15	40	0,36
WPBK-63	50	20	40	0,31
WPBK-64	55	20	40	0,42
WPBK-65	60	20	50	0,71
WPBK-66	60	24	45	0,56
WPBK-67	60	27	50	0,61
WPBK-68	63	20	50	0,81
WPBK-69	63	24	45	0,65
WPBK-70	65	20	50	0,88
WPBK-71	65	24	45	0,72
WPBK-72	70	20	50	0,94
WPBK-73	70	24	45	0,78
WPBK-74	70	27	50	0,83
WPBK-75	75	24	45	0,95
WPBK-76	75	27	50	1,00
WPBK-77	80	24	45	1,11
WPBK-78	80	27	50	1,23
WPBK-79	85	24	45	1,30
WPBK-80	85	27	50	1,43
WPBK-81	90	27	50	1,66
WPBK-82	90	33	50	1,55
WPBK-83	100	27	50	2,06
WPBK-84	100	33	50	1,95
WPBK-85	110	33	50	2,49
WPBK-86	110	40	50	2,33
WPBK-87	120	40	50	2,95
WPBK-88	125	40	50	3,19
WPBK-89	140	40	58	5,07
WPBK-90	150	40	58	5,97
WPBK-91	160	51	58	6,60



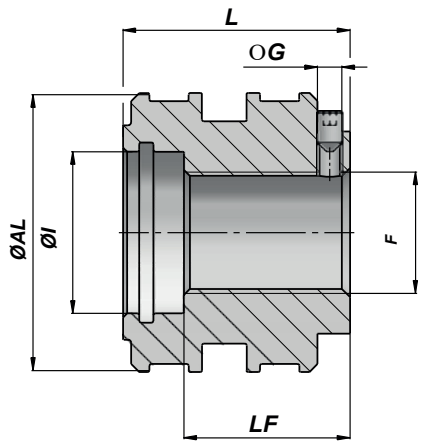
MATERIAL
STEEL 9SMN28 . UNI C40
ALUMINIUM UNI 2011 . 11S



WPBK1				
Code	**ØAL**	**ØI-F**	**L**	**kg**
WPBK1-100	180	M80x2	82	9,80
WPBK1-101	200	M80x2	82	13,00
WPBK1-102	250	M98x2	82	21,70

MATERIAL
STEEL 9SMN28 . UNI C40
ALUMINIUM UNI 2011 . 11S

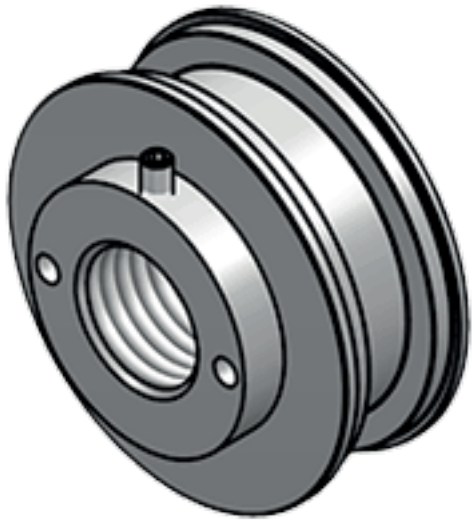
PISTON

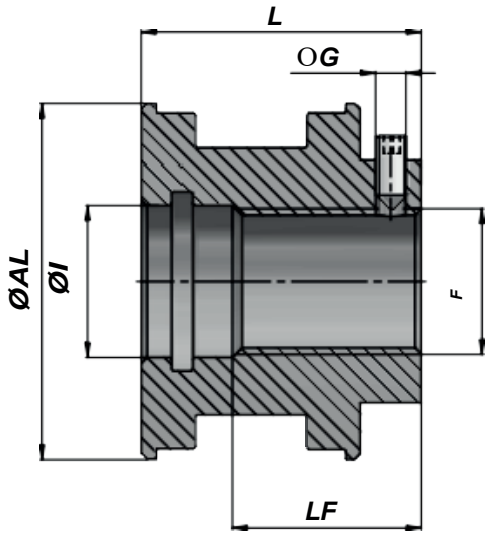


THREADED PISTON WITH GRUB SCREW

WPBQ							
Code	**ØAL**	**F**	**LF**	**L**	**ØI**	**ØG**	**kg**
WPBQ- 350	50	M20x1.5	28	40	21	M6	0,40
WPBQ- 351	50	M22x1.5	28	40	25	M6	0,36
WPBQ- 352	60	M27x2	30	45	30	M6	0,60
WPBQ- 353	63	M27x2	30	45	30	M6	0,67
WPBQ- 354	70	M33x2	41	56	35	M6	1,00
WPBQ- 355	70	M30x2	41	56	40	M6	1,00
WPBQ- 356	80	M30x2	41	56	40	M6	1,40
WPBQ- 357	80	M33x2	41	56	40	M6	1,37
WPBQ- 358	90	M36x3	40	55	38	M6	1,80
WPBQ- 359	90	M40x2	40	55	43	M6	1,71
WPBQ- 360	100	M42x2	41	56	45	M6	2,20
WPBQ- 361	110	M48x3	55	70	50	M8	3,40
WPBQ- 362	120	M48x3	55	70	50	M8	4,10
WPBQ- 363	120	M52x2	55	70	54	M8	3,94
WPBQ- 364	125	M48x3	55	70	51	M8	4,40
WPBQ- 365	125	M52x2	55	70	54	M8	4,23
WPBQ- 366	140	M48x3	57	75	50	M8	6,00
WPBQ- 367	140	M64x3	57	75	67	M8	5,55
WPBQ- 368	150	M52x3	60	80	56	M8	7,50
WPBQ- 369	150	M64x3	60	80	67	M8	6,91
WPBQ- 370	160	M52x3	60	80	56	M8	8,50
WPBQ- 371	160	M74x3	60	80	76	M8	7,82
WPBQ- 372	180	M80x2	85	115	90	M10	14,10
WPBQ- 373	200	M90x2	85	115	100	M10	17,48
WPBQ- 374	220	M100x2	90	120	110	M10	21,78
WPBQ- 375	250	M115x3	100	130	125	M10	30,04
WPBQ- 376	300	M140x3	105	140	150	M12	44,94

MATERIAL
STEEL UNI C40

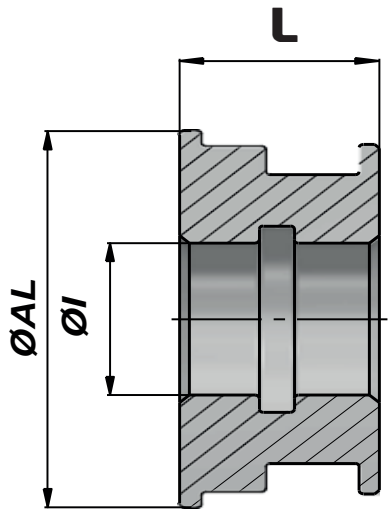




THREADED PISTON WITH GRUB SCREW

WPBF							
Code	ØAL	F	LF	L	ØI	ØG	kg
WPBF- 28	25	M10x1.5	23	30.5	11	M3	0,02
WPBF- 29	30	M12x1.5	23	30.5	13	M3	0,03
WPBF- 30	32	M12x1.5	25	33.0	13	M3	0,11
WPBF- 31	35	M12x1.5	32	40.0	13	M3	0,17
WPBF- 32	40	M16x1.5	32	42.0	17	M4	0,22
WPBF- 33	45	M16x1.5	32	42.0	17	M4	0,29
WPBF- 34	50	M20x1.5	32	44.0	21	M4	0,31
WPBF- 35	55	M20x1.5	32	44.0	21	M4	0,41
WPBF- 36	60	M24x2	31	46.0	25	M5	0,50
WPBF- 37	63	M24x2	31	46.0	25	M5	0,57
WPBF- 38	65	M24x2	31	46.0	25	M5	0,63
WPBF- 39	70	M24x2	34	49.0	25	M5	0,75
WPBF- 40	75	M27x2	37	52.0	28	M6	0,91
WPBF- 41	80	M27x2	37	52.0	28	M6	1,07
WPBF- 42	85	M27x2	37	52.0	28	M6	1,24
WPBF- 43	90	M33x2	37	52.0	35	M6	1,38
WPBF- 44	100	M33x2	39	54.0	35	M6	1,76
WPBF- 45	110	M39x3	42	57.0	42	M8	2,29
WPBF- 46	120	M42x3	42	57.0	45	M8	2,80
WPBF- 47	125	M42x3	44	59.0	45	M8	3,16
WPBF- 48	140	M48x3	47	65.0	51	M8	4,61
WPBF- 49	150	M48x3	47	65.0	51	M8	5,43
WPBF- 50	160	M52x3	47	65.0	54	M8	6,24

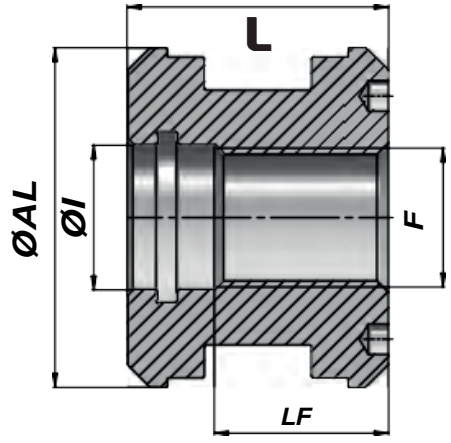
MATERIAL
STEEL 95MN28 .UNI C40
ALUMINIUM UNI 211.115



PISTON FOR SINGLE ACTING CYLINDER

WPBS				
Code	**ØA L**	**ØI**	**L**	**kg**
WPBS- 20	40	15	20	0,11
WPBS- 21	50	20	25	0,21
WPBS- 22	60	20	25	0,35
WPBS- 23	63	24	25	0,35
WPBS- 24	70	27	28	0,45
WPBS- 25	80	27	28	0,66
WPBS- 26	90	33	30	0,93
WPBS- 27	100	33	30	1,23

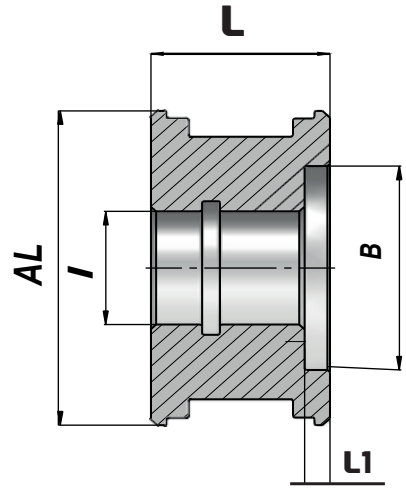
MATERIAL
STEEL 95MN28 .UNI C40



THREADED PISTON

WPBV						
Code	**ØAL**	**F**	**LF**	**L**	**ØI**	**kg**
WPBV -657	25	M10x1.5	17.5	25	11	0,01
WPBV -658	40	M16x1.5	30.0	40	17	0,22
WPBV -659	50	M20x1.5	28.0	40	21	0,31
WPBV -660	60	M24x2	30.0	45	25	0,58
WPBV -661	63	M24x2	30.0	45	25	0,66
WPBV -662	70	M24x2	30.0	45	25	0,78
WPBV -663	80	M27x2	30.0	45	28	1,08
WPBV -664	90	M33x2	35.0	50	35	1,57
WPBV -665	100	M33x2	35.0	50	35	2,18
WPBV -666	110	M39x3	35.0	50	42	2,40
WPBV -667	120	M42x3	35.0	50	45	3,00
WPBV -668	125	M42x3	35.0	50	45	3,20
WPBV -669	140	M48x3	40.0	58	51	4,90
WPBV -670	150	M48x3	40.0	58	51	5,80
WPBV -671	160	M52x3	40.0	58	54	6,70

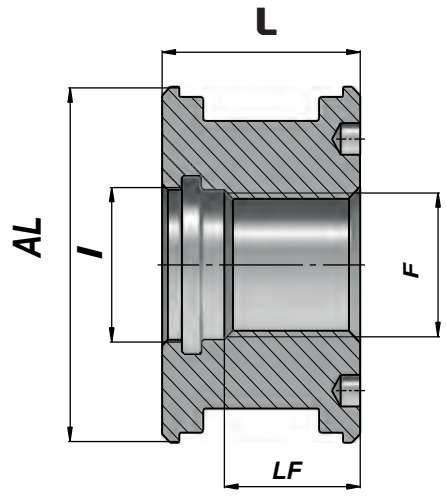
MATERIAL
STEEL 9SMN28 . UNI C40
ALUMINIUM UNI 2011 . 11S



WPBM						
Code	**ØAL**	**ØI**	**L**	**ØB**	**L1**	**Kg**
WPBM-500	40	15	27	27	5	0,15
WPBM-501	50	21	30	36	5	0,25
WPBM-502	60	25	35	45	5	0,40
WPBM-503	70	25	35	45	5	0,59
WPBM-504	80	28	40	50	6	0,95
WPBM-505	100	35	40	60	6	1,60

MATERIAL
STEEL 95MN28 . UNI C40

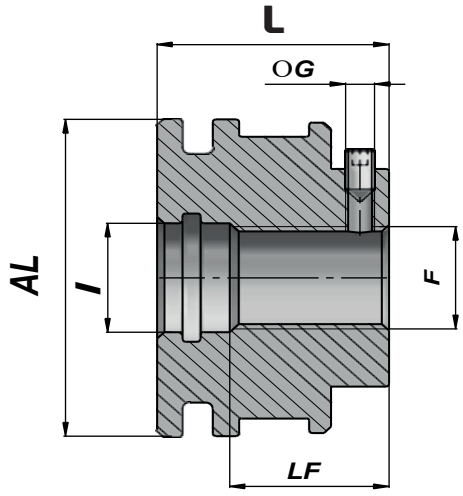
PISTON



THREADED PISTON

WPBA						
Code	**ØAL**	**F**	**LF**	**L**	**ØI**	**kg**
WPBA-200	30	M12x1.5	17	25	13	0,07
WPBA-201	32	M12x1.5	19	27	13	0,09
WPBA-202	35	M12x1.5	19	27	13	0,12
WPBA-203	40	M16x1.5	19	27	17	0,17
WPBA-204	45	M16x1.5	21	30	17	0,25
WPBA-205	50	M20x1.5	21	30	21	0,29
WPBA-206	55	M20x1.5	24	35	21	0,35
WPBA-207	60	M24x2	24	35	25	0,45
WPBA-208	63	M24x2	24	35	25	0,50
WPBA-209	65	M24x2	24	35	25	0,53
WPBA-210	70	M24x2	24	35	25	0,70
WPBA-211	75	M27x2	24	35	28	0,81
WPBA-212	80	M27x2	26	40	28	1,06
WPBA-213	85	M27x2	26	40	28	1,34
WPBA-214	90	M33x2	26	40	35	1,34
WPBA-215	100	M33x2	26	40	35	1,76

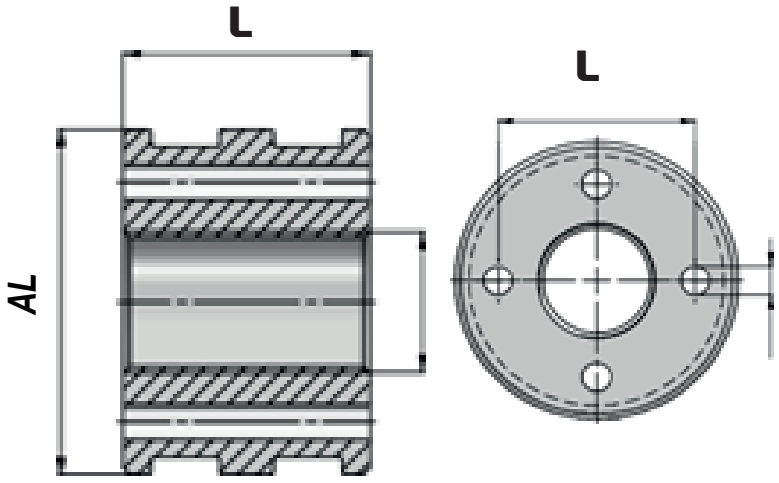
MATERIAL
STEEL 9SMN28 . UNI C40



THREADED PISTON WITH GRUB SCREW FOR LOW FRICTION SEAL

WPBL							
Code	**ØAL**	**F**	**LF**	**L**	**ØI**	**ØG**	**kg**
WPBL- 115	30	M12x1.5	22.5	30	13	M3	0,10
WPBL- 116	32	M12x1.5	22.0	30	13	M3	0,12
WPBL- 117	35	M12x1.5	22.0	30	13	M3	0,15
WPBL- 118	40	M16x1.5	22.0	32	17	M4	0,19
WPBL- 119	45	M16x1.5	22.0	32	17	M4	0,25
WPBL- 120	50	M16x1.5	22.0	32	17	M4	0,31
WPBL- 121	55	M20x1.5	23.0	35	21	M4	0,39
WPBL- 122	60	M24x2	25.0	40	25	M5	0,53
WPBL- 123	63	M24x2	25.0	40	25	M5	0,60
WPBL- 124	65	M24x2	25.0	40	25	M5	0,64
WPBL- 125	70	M24x2	25.0	40	25	M5	0,78
WPBL- 126	75	M27x2	30.0	45	28	M6	1,00
WPBL- 127	80	M27x2	30.0	45	28	M6	1,11
WPBL- 128	85	M27x2	30.0	45	28	M6	1,27
WPBL- 129	90	M33x2	33.0	48	35	M6	1,54
WPBL- 130	100	M33x2	33.0	48	35	M6	1,93
WPBL- 131	110	M39x3	35.0	50	42	M8	2,39
WPBL- 132	120	M42x3	35.0	50	45	M8	2,86
WPBL- 133	125	M42x3	37.0	52	45	M8	3,29
WPBL- 134	140	M48x3	40.0	55	51	M8	4,37
WPBL- 135	150	M48x3	40.0	55	51	M8	5,07
WPBL- 136	160	M52x3	45.0	60	54	M8	6,42

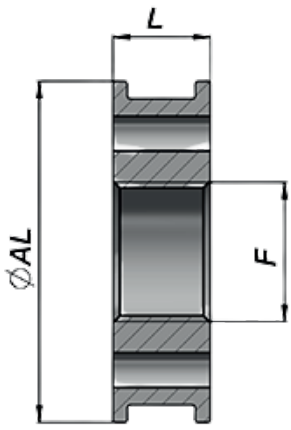
MATERIAL
STEEL 9SMN28 . UNI C40

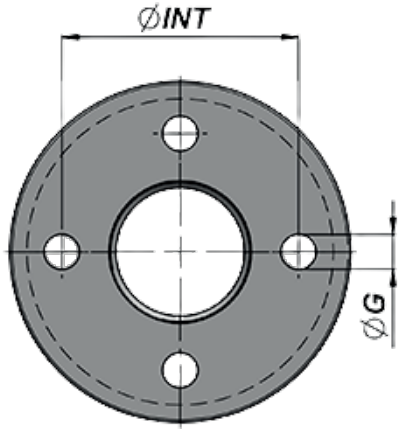


PISTON FOR PLUNGER CYLINDER

WPBUI						
Code	ØA L	F	L	ØG	ØINT	kg
WPBUI- D3	30	M12x1.5	35	ø 3 x 4	20	0,10
WPBUI- D4	35	M14x1.5	35	ø 4 x 4	23	0,20
WPBUI- D5	40	M14x1.5	35	ø 4 x 4	27	0,30
WPBUI- D6	45	M16x1.5	35	ø 4 x 4	32	0,30
WPBUI- D7	50	M20x1.5	35	ø 5 x 4	34	0,40
WPBUI- D8	55	M20x1.5	40	ø 5 x 4	38	0,50
WPBUI- D9	60	M20x1.5	40	ø 6 x 4	42	0,60
WPBUI- D10	70	M24x2	45	ø 7 x 4	50	1,00
WPBUI- D11	80	M27x2	45	ø 7 x 4	60	1,40
WPBUI- D12	85	M27x2	45	ø 7 x 4	65	1,60
WPBUI- D13	90	M33x2	50	ø 7 x 6	68	1,90
WPBUI- D14	100	M33x2	50	ø 8 x 6	76	2,40
WPBUI- D15	110	M39x3	55	ø 8 x 6	86	3,30
WPBUI- D16	120	M39x3	55	ø 10 x 6	93	4,00

MATERIAL
STEEL 9SMN28 . UNI C40



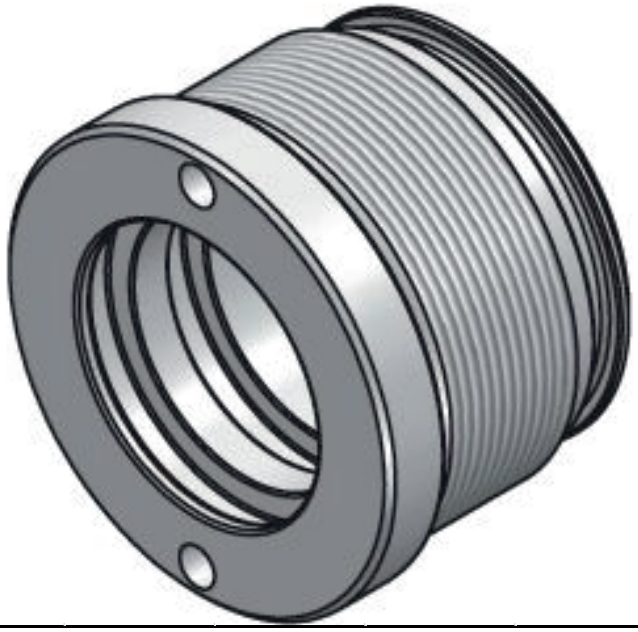


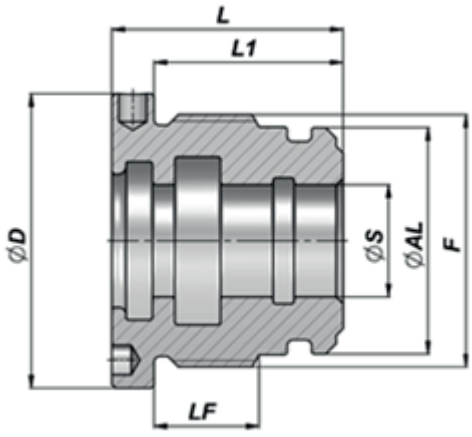
PISTON FOR PLUNGER CYLINDER

WPBUJ						
Code	ØAL	F	L	ØG	ØINT	kg
WPBUJ-D10	30	M12x1.5	14	ø 3 x 4	20	0,05
WPBUJ-D11	35	M14x1.5	14	ø 4 x 4	23	0,07
WPBUJ-D12	40	M14x1.5	14	ø 4 x 4	27	0,10
WPBUJ-D13	45	M16x1.5	14	ø 4 x 4	32	0,13
WPBUJ-D14	50	M20x1.5	14	ø 5 x 4	34	0,14
WPBUJ-D15	55	M20x1.5	18	ø 5 x 4	38	0,23
WPBUJ-D16	60	M20x1.5	18	ø 6 x 4	42	0,29
WPBUJ-D17	70	M24x2	20	ø 7 x 4	50	0,45
WPBUJ-D18	80	M27x2	20	ø 7 x 4	60	0,61
WPBUJ-D19	85	M27x2	20	ø 7 x 4	65	0,71
WPBUJ-D20	90	M33x2	22	ø 7 x 6	68	0,84
WPBUJ-D21	100	M33x2	22	ø 8 x 6	76	1,08
WPBUJ-D22	110	M39x3	22	ø 8 x 6	86	1,30
WPBUJ-D23	120	M39x3	22	ø 10 x 6	93	1,57

MATERIAL
STEEL 9SMN28 UNI C40

HEAD BUSH

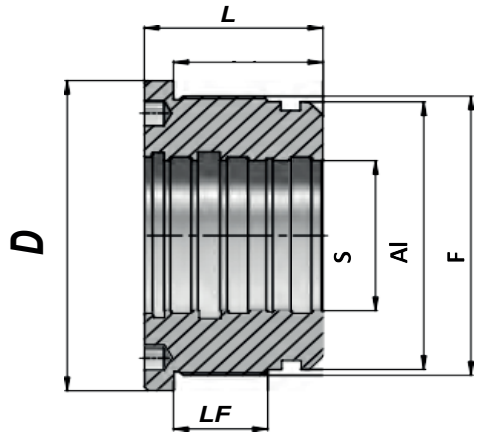




WTPY								
Code	**ØAL**	**ØS**	**ØD**	**F**	**LF**	**L**	**L1**	**kg**
WTPY- 0U300	30	16	40	M34x1.5	15	33	27	0,05
WTPY- 0U301	32	16	42	M36x1.5	15	33	27	0,06
WTPY- 0U302	35	20	44	M39x1.5	19	40	32	0,21
WTPY- 0U303	40	20	49	M44x1.5	19	40	32	0,30
WTPY- 0U304	45	22	54	M49x1.5	19	40	32	0,37
WTPY- 0U305	50	20	59	M54x1.5	22	43	35	0,55
WTPY- 0U306	55	25	64	M60x1.5	21	43	35	0,63
WTPY- 0U307	60	25	69	M64x1.5	27	50	40	0,91
WTPY- 0U308	63	30	73	M68x1.5	25	50	40	0,96
WTPY- 0U309	65	30	74	M69x1.5	25	50	40	1,00
WTPY- 0U310	70	25	79	M74x1.5	27	50	40	1,29
WTPY- 0U311	75	30	89	M80x2	33	60	50	1,79
WTPY- 0U312	80	30	94	M85x2	33	60	50	2,06
WTPY- 0U313	80	40	94	M85x2	33	60	50	1,78
WTPY- 0U314	85	35	99	M90x2	33	60	50	2,20
WTPY- 0U315	90	40	104	M95x2	33	60	50	2,35
WTPY- 0U316	100	40	114	M105x2	51	82	70	4,21
WTPY- 0U317	110	45	124	M115x2	41	72	60	4,40
WTPY- 0U318	120	50	139	M125x2	49	82	70	5,99
WTPY- 0U319	125	60	144	M130x2	59	92	80	6,76
WTPY- 0U320	140	70	159	M145x2	59	92	80	8,10
WTPY- 0U321	150	70	169	M155x2	69	102	90	10,75
WTPY- 0U322	160	80	179	M165x2	69	102	90	11,76

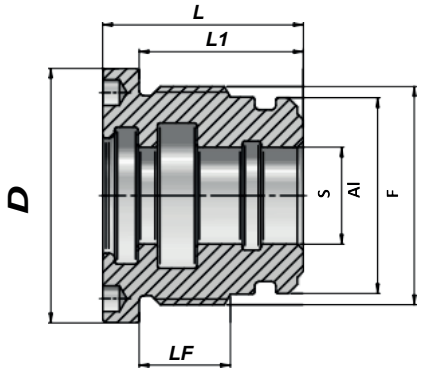
MATERIAL
HYDRAULIC CAST IRON EN GJL 250 (G25 UNI 5007/EN 1561)
ALUMINIUM UNI 2011 11S

HEAD BUSH



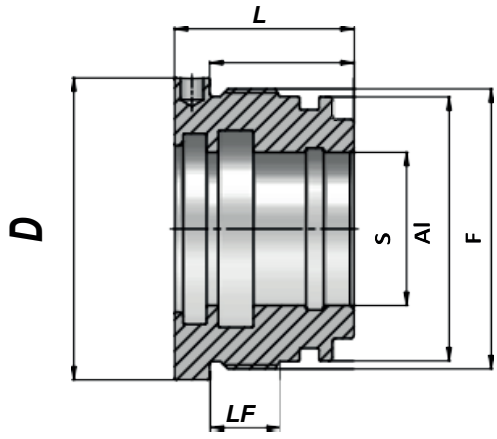
WTPB								
Code	ØAL	ØS	ØD	F	LF	L	L1	kg
WTPB- 0U30	180	100	208	M188x2.5	58	110	92	14,84
WTPB- 0U31	200	100	218	M208x2.5	58	110	92	19,34
WTPB- 0U32	250	120	268	M258x2.5	80	135	117	37,94

MATERIAL
HYDRAULIC CAST IRON EN GJL 250 (G25 UNI 5007/EN 1561)
ALUMINIUM UNI 2011 11S



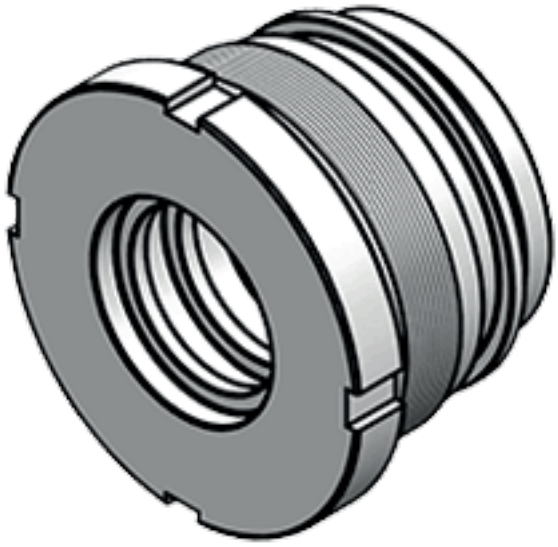
WTPC								
Code	ØAL	ØS	ØD	F	LF	L	L1	kg
WTPC- 0U20	100	40	114	M105x2	30	65	55	3,2
WTPC- 0U21	110	45	124	M115x2	36	70	60	4,19
WTPC- 0U22	120	50	139	M125x2	36	70	60	5,01
WTPC- 0U23	125	60	144	M130x2	41	75	65	5,4
WTPC- 0U24	140	70	159	M145x2	41	75	65	6,46
WTPC- 0U25	150	70	169	M155x2	46	82	70	8,55
WTPC- 0U26	160	80	179	M165x2	49	85	73	9,72

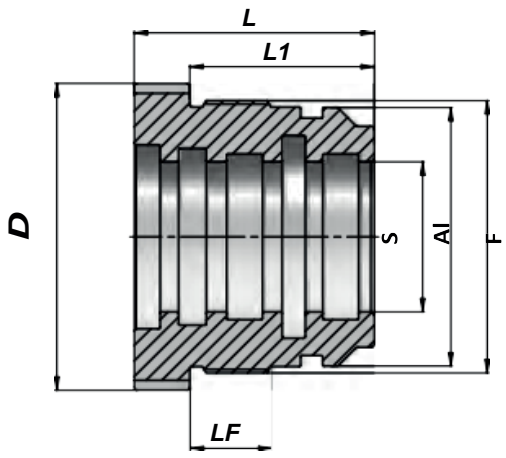
MATERIAL
HYDRAULIC CAST IRON EN GJL 250 (G25 UNI 5007/EN 1561)



WTPE								
Code	ØAL	ØS	ØD	F	LF	L	L1	kg
WTPE- 1000	40	20	49	M44x1.5	11	33	26	0,22
WTPE- 1001	50	25	59	M54x1.5	13	36	28	0,38
WTPE- 1002	60	30	69	M64x1.5	16	41	33	0,62
WTPE- 1003	70	35	79	M74x1.5	16	41	33	0,84
WTPE- 1004	80	40	92	M85x2	18	46	36	1,24
WTPE- 1005	100	50	114	M105x2	22	55	45	2,32

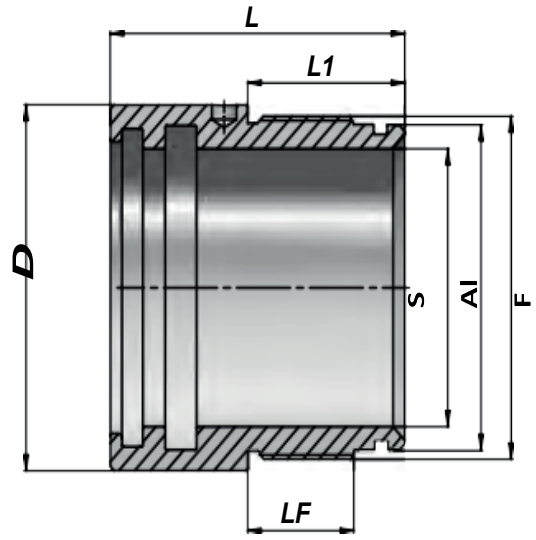
MATERIAL
HYDRAULIC CAST IRON EN GJL 250 (G25 UNI 5007/EN 1561)





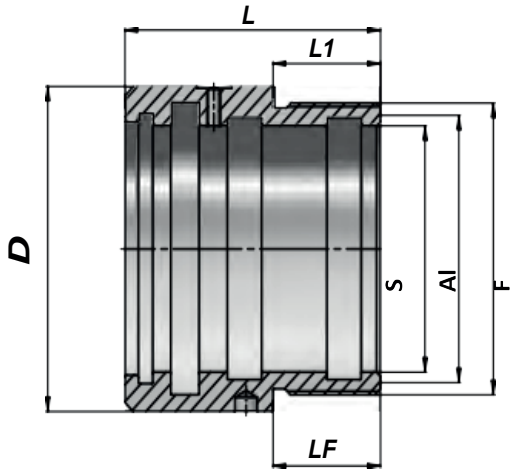
WTP20								
Code	ØAL	ØS	ØD	F	LF	L	L1	kg
WTP20- HO47	50	25	64	M54x1.5	22	55	45	0,66
WTP20- HO48	60	30	74	M64x1.5	22	60	48	1
WTP20- HO49	63	35	78	M68x1.5	22	60	48	1,04
WTP20- HO50	70	35	84	M74x1.5	22	65	50	1,48
WTP20- HO51	80	40	94	M85x2	25	75	60	2,18
WTP20- HO52	90	45	109	M95x2	25	75	60	2,84
WTP20- HO53	100	45	119	M105x2	25	75	60	3,8
WTP20- HO54	110	50	129	M115x2	30	85	70	5,07
WTP20- HO55	120	60	139	M125x2	30	85	70	5,68
WTP20- HO56	125	70	144	M130x2	39	90	75	5,99
WTP20- HO57	140	80	159	M145x2	40	90	75	7,22
WTP20- HO58	150	80	169	M155x2	46	100	85	9,85
WTP20- HO59	160	100	179	M165x2	46	100	85	9,43
WTP20- HO60	180	100	215	M188x2.5	60	125	107	18,06
WTP20- HO61	200	100	225	M208x2.5	60	125	107	23,63
WTP20- HO62	220	120	245	M228x2.5	65	130	112	27,82
WTP20- HO63	250	150	275	M258x2.5	80	150	130	37,42
WTP20- HO64	300	150	335	M308x3	95	180	155	77,05

MATERIAL
STEEL UNI C 40



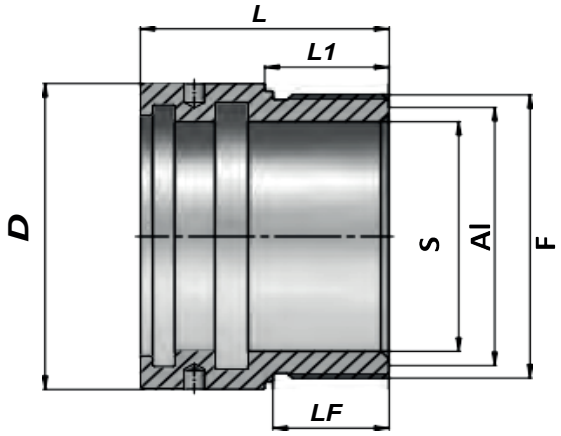
WTPA3								
Code	ØS	ØAL	ØD	F	LF	L	L1	kg
WTPA3-103A	20	30	39.0	M34x1.5	15	57	27	0,25
WTPA3-103A	25	35	44.0	M39x1.5	19	65	32	0,34
WTPA3-103A	30	40	49.0	M44x1.5	19	65	32	0,39
WTPA3-103A	35	45	54.0	M49x1.5	19	65	32	0,44
WTPA3-103A	40	50	59.0	M54x1.5	22	70	35	0,53
WTPA3-103A	45	55	64.0	M60x1.5	22	70	35	0,59
WTPA3-103A	50	60	69.0	M64x1.5	22	75	40	0,67
WTPA3-103A	60	70	79.0	M74x1.5	27	75	40	0,78

MATERIAL
HYDRAULIC CAST IRON EN GJL 250 (G25 UNI 5007/EN 1561)



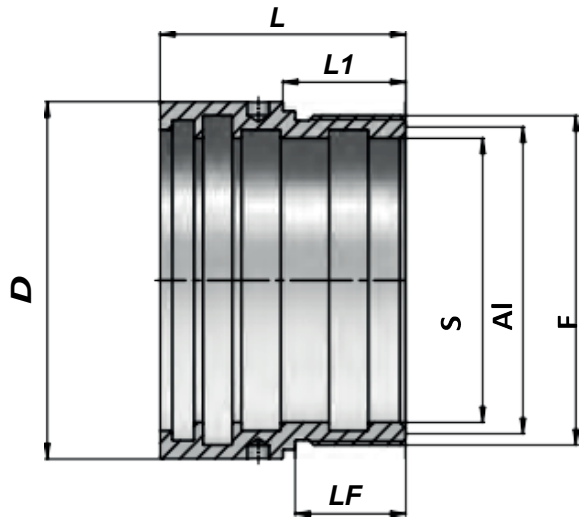
WTPA4								
Code	**ØS**	**ØAL**	**ØD**	**F**	**LF**	**L**	**L1**	**kg**
WTPA4-103A	70	85	100.0	M90x2	30	90	30	1,99
WTPA4-103A	80	90	107.0	M96x2	40	95	40	1,9
WTPA4-103A	100	120	138.5	M124x2	42	157	42	7,12

MATERIAL
STEEL ST 52.3/UNI C40



WTPZ5								
Code	ØS	ØAL	ØD	F	LF	L	L1	kg
WTPZ5-320Z	20	30	40	M34x1.5	18	42	20	0,22
WTPZ5-321Z	25	30	40	M34x1.5	18	42	20	0,15
WTPZ5-322Z	30	40	50	M44x1.5	19	46	21	0,33
WTPZ5-323Z	35	40	50	M44x1.5	19	46	21	0,23
WTPZ5-324Z	40	50	60	M54x1.5	28	59	30	0,53
WTPZ5-325Z	45	50	60	M54x1.5	28	59	30	0,37
WTPZ5-326Z	50	60	70	M64x1.5	28	60	30	0,63
WTPZ5-327Z	60	70	80	M74x1.5	28	60	30	0,75

MATERIAL
STEEL 95MN28 WIH/NI.TEPER/TREATMENT



WTPZ6								
Code	ØS	ØAL	ØD	F	LF	L	L1	kg
WTPZ6- 320Z	70	80	95	M85x2	32	70	35	1,05
WTPZ6- 321Z	80	90	105	M95x2	36	80	40	1,38
WTPZ6- 322Z	90	100	115	M105x2	36	80	40	1,41
WTPZ6- 323Z	100	110	125	M115x2	45	100	50	2,02

MATERIAL
STEEL ST 52.3/UNI C40

HBF

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