

**Pressure inlet possible from all ports!
Must be operated only at $\Delta P=0\text{bar}$!**

AVAILABLE SIZES

DN4 - DN50 (1/8" to 2")

CONNECTIONS

DIN ISO 228 Female thread, ANSI B1.20.1 NPT Female thread, DIN 2353/ISO 8434-1 Light / Heavy series, SAE J 514/ISO/DIS11926-1 Female thread, others on request

ACCESSORIES ON REQUEST

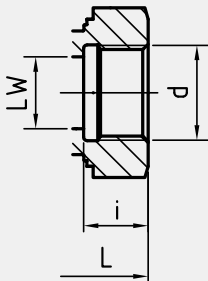
- Locking devices page 230 - 233
- Actuators 228 - 229
- Mounting holes 19
- Position switches 236 - 237
- Combinations 198 - 199
- Detent on request

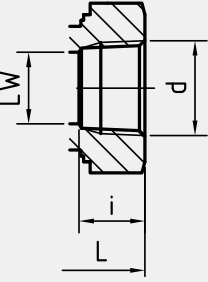
MATERIAL CODE DESCRIPTION

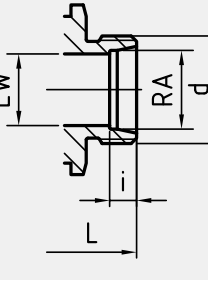
Materials	118A	118A	1188	1188
Body	Steel	Steel	Steel	Steel
Ball	Steel	Steel	Steel	Steel
Stem	Steel	Steel	Steel	Steel
Ball seats	POM	POM	POM	POM
O-rings	NBR	NBR	FPM	FPM
Tmin / Tmax	-20°C / 100°C	-20°C / 100°C	-20°C / 100°C	-20°C / 100°C
Porting pattern	L=SB55	T=SB56	L=SB55	T=SB56

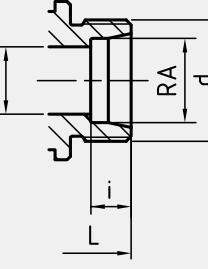
GENERAL DIMENSIONS

Type	L	b	B	H	h	m	V	SW	K	H ₁	H ₂	Lever
BK3-S-DN4	40	13	29	47	33	13,5	11	9	115	-	82	Zn
BK3-S-DN6	40	13	29	47	33	13,5	11	9	115	-	82	Zn
BK3-S-DN8	40	13	29	47	33	13,5	11	9	115	-	82	Zn
BK3-S-DN10	43	16	35	52	38	17,5	11	9	115	-	86	Zn
BK3-S-DN13	48	17,5	38	54	40	19	11	9	115	-	89	Zn
BK3-S-DN20	62	24,5	52	75	57	24,5	14	14	200	79	-	Zn
BK3-S-DN25	66	29	61	83	65	29,5	14	14	200	87	-	Zn
BK3-S-DN25/32	66	29	61	83	65	29,5	14	14	200	87	-	Zn
BK3-S-DN32	81	39	-	106	84,5	39	16,5	17	320	115	-	Al
BK3-S-DN40	104	53	-	127	106	53	16,5	17	320	136	-	Al
BK3-S-DN50	118	58	-	137	116	58	16,5	17	320	146	-	Al

CONNECTION TYPE	DIMENSIONS									ORDER CODE PER MATERIAL COMBINATION				
DIN ISO 228 FEMALE THREAD	Type	LW	L	S	LW ₁	i	d	Weight [Kg]	PN [bar]	118A L=SB55	118A T=SB56	1188 L=SB55	1188 T=SB56	
	BK3-S-DN4-G1/8	5	69	34,5	4	10	G1/8	0,40	500	02543*	02569*	38007*	38022*	
	BK3-S-DN6-G1/4	6	69	34,5	6	14	G1/4	0,46	500	20039*	02572*	04330*	38023*	
	BK3-S-DN10-G3/8	10	72	36	10	14	G3/8	0,60	500	00902*	20119*	04102*	38024*	
	BK3-S-DN13-G1/2	13	83	41,5	13	16,3	G1/2	0,70	315	02554*	02580*	27347*	28639*	
	BK3-S-DN13-G5/8	13	83	41,5	13	16	G5/8	0,70	315	02557*	38018*	38008*	38025*	
	BK3-S-DN20-G3/4	20	95	47,5	20	18	G3/4	1,80	315	02717*	02767*	19972*	09399*	
	BK3-S-DN25-G1	25	113	56,5	25	20	G1	2,40	315	02720*	02779*	38009*	11954*	
	BK3-S-DN25/32-G1 1/4	25	120	57	25	22	G1 1/4	2,64	315	02723*	02780*	38010*	38026*	
	BK3-S-DN32-G1 1/4	30	111	55	30	22	G 1 1/4	4,80	350	38013*	38019*	33276*	38027*	
	BK3-S-DN40-G1 1/2	38	130	65	38	24	G 1 1/2	8,90	350	30040*	38020*	38011*	38028*	
	BK3-S-DN50-G2	48	150	75	48	26	G2	12,40	350	38006*	38021*	38012*	38029*	

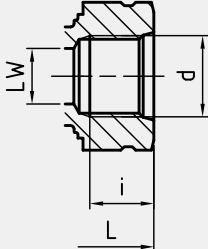
ANSI B1.20.1 NPT FEMALE THREAD	Type	LW	L	S	LW ₁	i	d	Weight [Kg]	PN [bar]	118A L=SB55	118A T=SB56	1188 L=SB55	1188 T=SB56
	BK3-S-DN4-1/8" NPT	5	69	34,5	4	10,5	1/8" NPT	0,40	500	40224*	40225*	40226*	40227*
	BK3-S-DN6-1/4" NPT	6	69	34,5	6	13,7	1/4" NPT	0,46	500	34885*	38058*	38041*	38059*
	BK3-S-DN10-3/8" NPT	10	72	36	10	13,5	3/8" NPT	0,60	500	14368*	38060*	38042*	38061*
	BK3-S-DN13-1/2" NPT	13	83	41,5	13	17	1/2" NPT	0,70	315	28281*	38062*	38043*	38063*
	BK3-S-DN20-3/4" NPT	20	95	47,5	20	18,3	3/4" NPT	1,80	315	38035*	38064*	28242*	38065*
	BK3-S-DN25-1" NPT	25	113	56,5	25	21,6	1" NPT	2,40	315	38036*	38066*	38044*	38067*
	BK3-S-DN25/32-1 1/4" NPT	25	120	57,5	25	22,1	1 1/4" NPT	2,64	315	38037*	38068*	38045*	38069*
	BK3-S-DN32-1 1/4" NPT	30	120	60	30	22,1	1 1/4" NPT	5,24	350	38038*	38070*	38046*	38071*
	BK3-S-DN40-1 1/2" NPT	38	140	70	38	22,1	1 1/2" NPT	10,00	350	38039*	38072*	38047*	38073*
	BK3-S-DN50-2" NPT	48	150	75	48	30,2	2" NPT	12,20	350	38040*	38074*	38048*	38075*

DIN 2353 / ISO 8434-1 LIGHT SERIES	Type	LW	RA	L	S	LW ₁	i	d	Weight [Kg]	PN [bar]	118A L=SB55	118A T=SB56	1188 L=SB55	1188 T=SB56
	BK3-S-DN4-6L	5	6	67	33,5	4	7	M 12x1,5	0,30	500	02541*	02567*	04271*	37979*
	BK3-S-DN6-8L	6	8	67	33,5	6	7	M 14x1,5	0,40	500	02544*	02570*	04251*	37980*
	BK3-S-DN8-10L	8	10	74	34,5	8	7	M 16x1,5	0,40	500	02548*	02574*	37973*	37981*
	BK3-S-DN10-12L	10	12	74	36,5	10	7	M 18x1,5	0,50	500	04801*	37977*	04803*	37982*
	BK3-S-DN13-15L	13	15	82	41	13	7	M 22x1,5	0,65	315	02552*	02578*	04116*	37983*
	BK3-S-DN13-18L	13	18	82	41,5	13	7,5	M 26x1,5	0,69	315	02555*	37978*	33246*	37984*
	BK3-S-DN20-22L	20	22	101	48	20	7,5	M 30x2	1,50	315	20287*	02765*	37974*	37985*
	BK3-S-DN25-28L	25	28	108	54	25	7,5	M 36x2	2,10	315	02718*	02777*	37975*	37986*
	BK3-S-DN25/32-35L	25	35	112	56	25	10,5	M 45x2	2,50	315	02721*	02782*	37976*	37987*

DIN 2353 / ISO 8434-1 HEAVY SERIES	Type	LW	RA	L	S	LW ₁	i	d	Weight [Kg]	PN [bar]	118A L=SB55	118A T=SB56	1188 L=SB55	1188 T=SB56
	BK3-S-DN4-8S	5	8	73	34,5	4	7	M 16x1,5	0,42	500	02542*	02568*	37989*	37996*
	BK3-S-DN6-10S	6	10	73	34,5	6	7,5	M 18x1,5	0,43	500	02545*	02571*	37990*	37997*
	BK3-S-DN8-12S	8	12	76	34,5	8	7,5	M 20x1,5	0,44	500	02547*	02573*	37991*	37998*
	BK3-S-DN10-14S	10	14	80	36,5	10	8	M 22x1,5	0,50	500	04782*	02577*	37992*	37999*
	BK3-S-DN13-16S	13	16	86	43	13	8,5	M 24x1,5	0,65	315	02553*	02579*	37993*	38000*
	BK3-S-DN13-20S	13	20	90	43	15	10,5	M 30x2	0,70	315	20288*	36377*	29921*	38001*
	BK3-S-DN20-25S	20	25	109	48	20	12	M 36x2	1,70	315	10073*	02766*	04955*	38002*
	BK3-S-DN25-30S	25	30	120	57,5	25	13,5	M 42x2	2,40	315	02719*	02778*	37994*	38003*
	BK3-S-DN25/32-38S	25	38	124	57,5	25	16	M 52x2	2,80	315	02722*	02781*	32489*	38004*

Please note the pressure ratings of the tube connections!

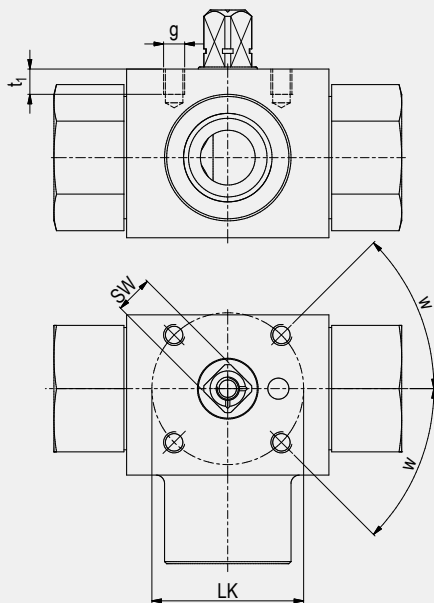
*Article usually in stock.

CONNECTION TYPE	DIMENSIONS								ORDER CODE PER MATERIAL COMBINATION				
SAE J514/ISO/DIS11926-1 FEMALE THREAD	Type	LW	L	S	LW ₁	i	d	Weight [Kg]	PN [bar]	118A L=SB55	118A T=SB56	1188 L=SB55	1188 T=SB56
	BK3-S-DN6-7/16" UNF	5	69	34,5	6	12	7/16"-20 UNF	0,50	500	38084*	38104*	38089*	38109*
	BK3-S-DN10-9/16" UNF	10	72	36	7,5	13	9/16"-18 UNF	0,60	500	38085*	38105*	38090*	38110*
	BK3-S-DN13-3/4" UNF	13	83	41,5	13	15	3/4"-16 UNF	0,70	315	38086*	38106*	38091*	38111*
	BK3-S-DN20-1 1/16" UN	20	105	47,5	16	20	1 1/16"-12 UN	1,80	315	38087*	38107*	38092*	38112*
	BK3-S-DN25-1 5/16" UN	25	113	56,5	21	20	1 5/16"-12 UN	2,70	315	38088*	38108*	38093*	38113*
	BK3-S-DN32-1 5/8" UN	30	111	60	30	20	1 5/8"-12 UN	5,20	350	39226*	39227*	39228*	39229*
	BK3-S-DN40-1 7/8" UN	38	140	70	38	20	1 7/8"-12 UN	10,00	350	39230*	39231*	39232*	39233*
	BK3-S-DN50-2 1/2" UN	48	150	75	48	20	2 1/2"-12 UN	12,20	350	39234*	39235*	39236*	39237*

Please note the pressure ratings of the tube connections!

*Article usually in stock.

Due to material availability the material code of the steel valves may vary from 118A (1188). DN20-32=818A (8188), DN40-50=218A (2188). Material suitability for the application does not differ from 118A (1188).



ASSEMBLING THREADS AS PER ISO 5211

DN	SW	LK	g	t ₁	w	ISO 5211
4	9	36	M5	6	30°*	(F03)*
6	9	36	M5	6	30°*	(F03)*
10	9	36	M5	7	45°	F03
13	9	36	M5	6	45°	F03
16	12	42	M5	8	45°	F04
20	14	50	M6	10	45°	F05
25	14	50	M6	10	45°	F05
25/32	14	50	M6	10	45°	F05
25/40	14	50	M6	10	45°	F05

*30° does not correspond to ISO 5211

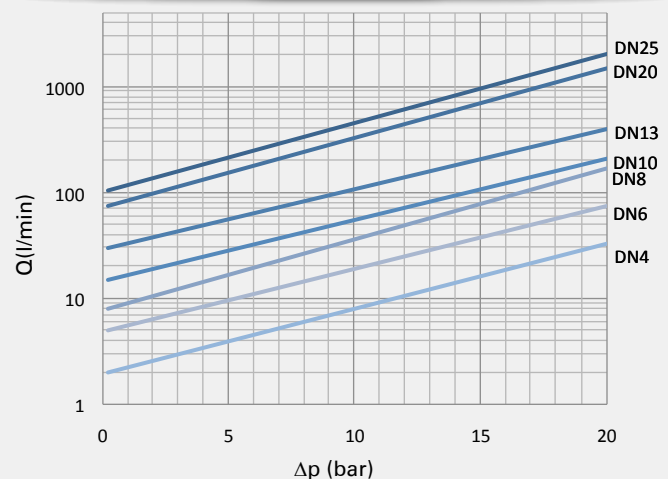
PORTING PATTERNS



Pressure inlet possible from all ports!
Must be operated only at $\Delta P=0\text{bar}$!

Further porting patterns page 274 to 279

FLOW CHARACTERISTICS BK3S-L/T



The flow values are measured with usage of hydraulic oil (spissitude 880 kg/m³) and the kinematic viscosity of 35 mm²/s.