



Shut-off and control technology

Excavator ball valves

Ball valve-function systems

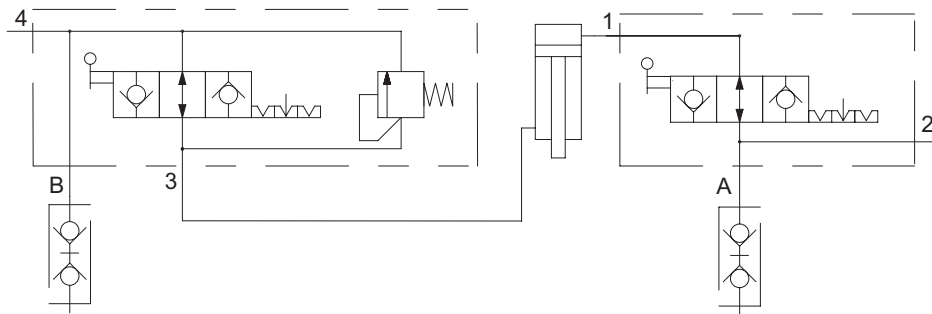
Excavator ball valves - technical information



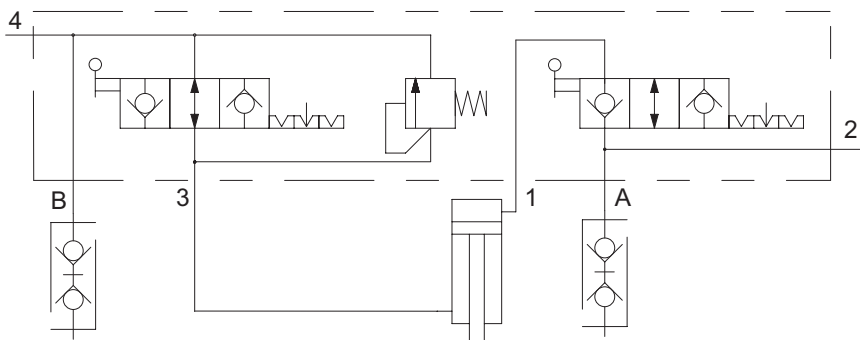
Modern excavators are not only just earth moving machines, but also very versatile tools. So today's excavators can easily be retooled from bucket to grab in minutes with a hydraulic tool changer. When the bucket is not in use, the changer tends to pull out the rod due to it's weight.

Rötelmann has developed a solution to solve this problem and to make changing tools faster and safer. The ball valves close both sides of the bucket cylinder. The integrated check valve function allows the rod to get into the cylinder and prevents the rod from being pulled out of the cylinder. In driving position, the check valve function is vice versa, so the bucket cannot hit the road.





**Schematic piston side
and rod side**

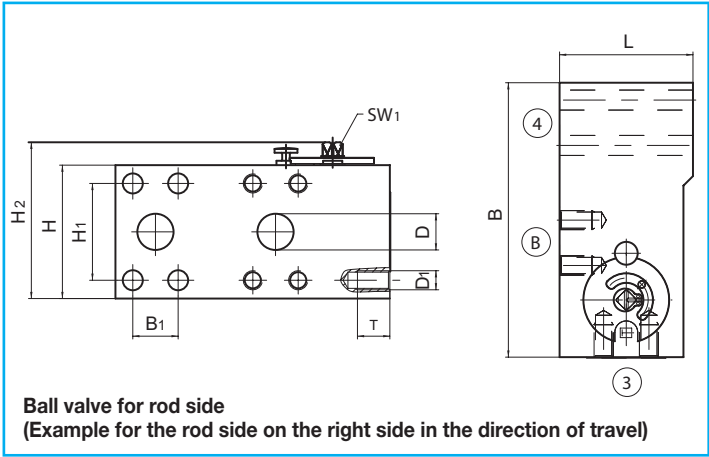
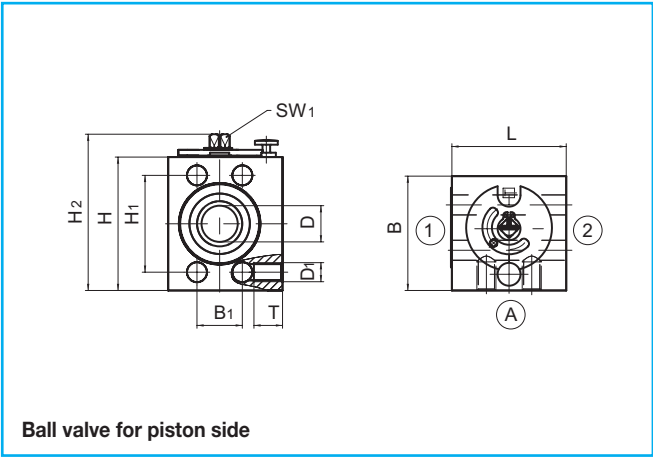


Schematic double block

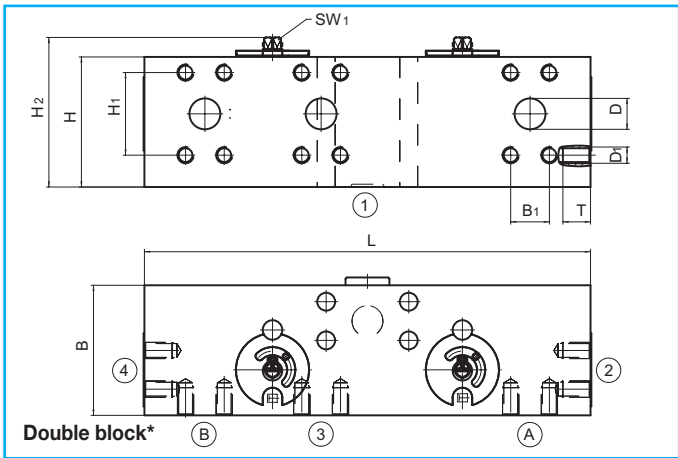
As these ball valves are offered for cylinders where the inlet to the rod side is on the right side as well as the other way round, they can be used for all common excavator brands and also be retrofitted.

Ball valve-function systems

Excavator ball valves · ISO 6162-2 (SAE) · DN 19 + 25



	DN	H	L	B	H ₁	H ₂	B ₁	D	D ₁	T	SW ₁	Weight
Ball valve for rod side	19	70	70	144	50,8	82	23,8	19	M10	17	8	4,5
Ball valve for piston side	19	70	60	60	50,8	82	23,8	19	M10	15	8	1,6
Complete installation kit	19	-	-	-	-	-	-	19	-	-	-	-
Double block	19	80	274,4	80	50,8	92	23,8	19	M10	17	8	12,1
Ball valve for rod side	25	80	80	187	57,2	92	27,8	25	M12	21	8	8,1
Ball valve for piston side	25	80	70	80	57,2	92	27,8	25	M12	18	8	2,8
Complete installation kit	25	-	-	-	-	-	-	-	-	-	-	-
Double block	25	90	310	90	57,2	102	27,8	25	M12	21	8	18,0



*The illustration is an example for the rod side on the right side in the direction of travel

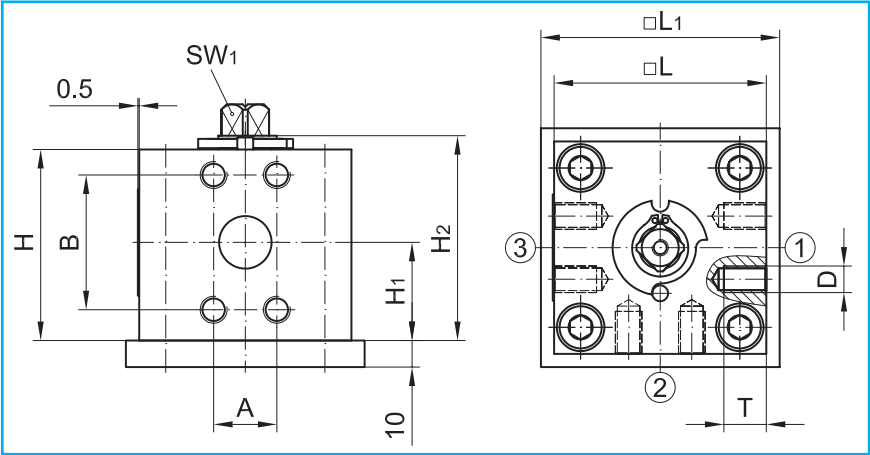
Handle included in delivery
 Custom orders on request
 All dimensions subject to change without notice
 Dimensions in mm
 Weight in kg
 Pressure in bar

Body:	steel, zinc plated
Ball:	steel, hard chrome plated
Stem:	steel, zinc plated
Ball seats:	POM
Stem seals:	FKM

the rod side in the direction of travel		
	right	left
PN	Article-No.	Article-No.
420	104401	104405
420	104402	104406
420	104403	104407
420	104404	104408
420	104409	104413
420	104410	104414
420	104411	104415
420	104412	104416

Multi-way ball valves with floating ball

3-way · steel · ISO · DN 19 - DN 32



Connection

DN	Flange-size	D	T	A	B	L	L1	H	H1	H2	SW1	Weight
	(inch)											
19	3/4	M10	21	23,8	50,8	80	90	72	37	77,5	14	4,0
25	1	M12	23	27,8	57,2	90	100	80	40	85,5	14	5,5
32	1 1/4	M12	24	31,8	66,6	100	110	100	50	106,0	17	8,0
19	3/4	3/8 - 16 UNC	24	23,8	50,8	80	90	72	37	77,5	14	4,0
25	1	7/16 - 14 UNC	27	27,8	57,2	90	100	80	40	85,5	14	5,5
32	1 1/4	1/2 - 13 UNC	28	31,8	66,7	100	110	100	50	106,0	17	8,0

ISO 6162-2

Handle on request, refer to "Attachments, accessories".

✖ Application of pressure only as indicated in chapter "Technical information"

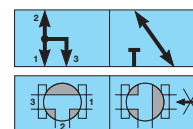
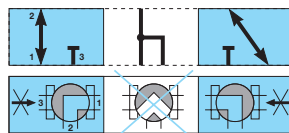
Actuators and custom orders on request

All dimensions subject to change without notice

Dimensions in mm

Weight in kg

Pressure in bar



Bore:	L	L	T	T
Cycling:	90°	90°	90°	90°
Body:	steel, zinc plated	steel**	steel**	steel**
Ball:	steel, hard chrome plated	steel, hard chrome plated	steel, hard chrome plated	steel, hard chrome plated
Stem:	steel, zinc plated	steel**	steel**	steel**
Ball seats:	POM	POM	POM	POM
Stem seals:	NBR	FKM	NBR	FKM

DN

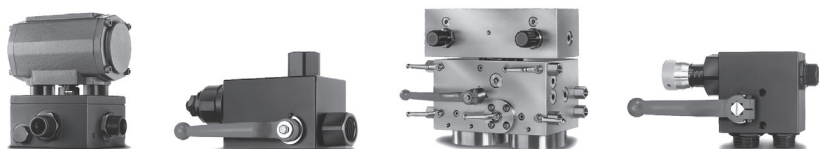
PN Article-No.

PN Article-No.

PN Article-No.

PN Article-No.

19	400	204 301	400	204 306	400	204 311	400	204 316
25	400	204 302	400	204 307	400	204 312	400	204 317
32	400	204 304	400	204 309	400	204 314	400	204 319
20	400	204 321	400	204 326	400	204 331	400	204 336
25	400	204 322	400	204 327	400	204 332	400	204 337
32	400	204 323	400	204 328	400	204 333	400	204 338



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