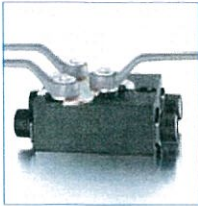
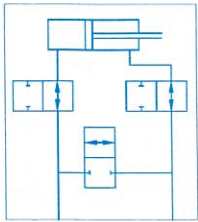


Ball valve-function systems

Shut-off blocks · technical information

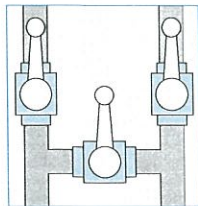


Shut-off blocks with integrated bypass and safety-lock



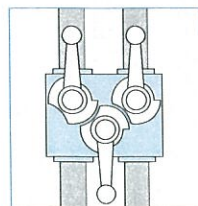
Application/function:

For liquid and oily media as per the compatibility table in the technical data appendix; for insertion upline of actuator cylinders with the capability to both block the cylinder feed lines and to short-circuit them.



The previous situation:

Installation of separate ball valves in the piping system. Here a total of twelve pipe joints must be provided, using two tees. This is labor-intensive and thus expensive. In addition, the hazard of leaks rises with the number of joints.



Our solution for the problem:

Combining the three shut-off functions within a single block by incorporating three ball valve assemblies. Only four pipe connections need to be made. A certain sequence in operation is achieved by cam interlocks on the ball valves:

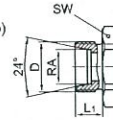
1. block the rod end
2. open the bypass
3. block the piston end

Advantages:

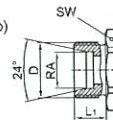
- clear design and user-friendly arrangement
- quick assembly with a reduced number of pipe connections
- reduced hazard of leaks
- mutual interlocks for the valves give a specific operating sequence and prevent any pressure intensification in the rod end of the cylinder
- switches can be attached

Type of connection

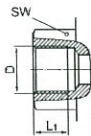
Type of connection	DN	Thread D	RA	L	L ₁
For cut (clamp) ring tube fittings DIN 2353 light series ISO 8434-1	10	M18 x 1,5	12	120	11
	12	M22 x 1,5	15	132	12
	20	M30 x 2	22	149	14
	25	M36 x 2	28	173	14



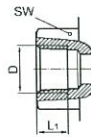
For cut (clamp) ring tube fittings DIN 2353 heavy series ISO 8434-1



BSP-female thread DIN EN ISO 228-1

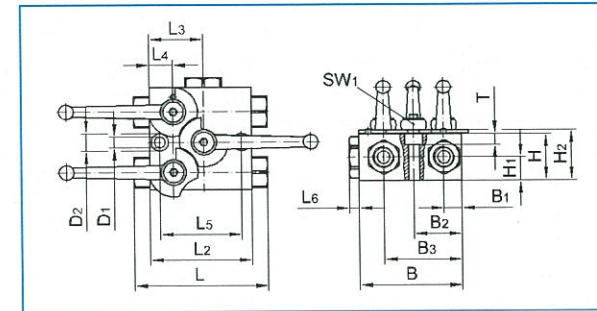


NPT-female thread ANSI/ASME B1.20.1-1983



DN	Thread D	RA	L	L ₁
10	M22 x 1,5	14	126	14
12	M24 x 1,5	16	136	14
20	M36 x 2	25	157	16
25	M42 x 2	30	185	20
10	G 3/8	-	118	14
12	G 1/2	-	131	15
20	G 3/4	-	143	18
25	G 1	-	178	18
10	3/8-18 NPT	-	118	10,3
12	1/2-14 NPT	-	131	13,6
20	3/4-14 NPT	-	143	14,1
25	1-11/2 NPT	-	178	16,8

Shut-off blocks · steel · DN 10 - DN 25



Handle included in delivery

For handles refer to "Attachments, accessories".

Please check pressure ratings of pipe fittings!

Also available with most other connections

Custom orders on request

All dimensions subject to change without notice

Dimensions in mm

Weight in kg

Pressure in bar

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

L2	L3	L4	L5	L6	B	B1	B2	B3	H	H1	H2	D1	D2	T	SW	SW1	Handle Weight Code	PN	Article-No.	
90	51,0	22,8	60	6,5	90	20,7	45,7	70,7	40	19,5	43,5	8,4	15	9	24	8	2	1,9	500	250 001
100	53,0	23,5	80	9,5	100	17,0	46,5	76,0	46	23,0	49,5	10,5	17	11	30	10	3	3,2	500	250 002
110	66,5	29,0	90	12,0	125	23,0	60,0	97,0	62	31,0	68,5	10,5	17	11	41	14	53	5,5	315	250 004
135	76,6	32,6	115	6,5	147	27,8	71,8	115,8	68	34,0	74,5	10,5	17	11	50	14	53	8,3	315	250 005
90	51,0	22,8	60	6,5	90	20,7	45,7	70,7	40	19,5	43,5	8,4	15	9	24	8	2	1,9	500	250 006
100	53,0	23,5	80	9,5	100	17,0	46,5	76,0	46	23,0	49,5	10,5	17	11	30	10	3	3,2	500	250 007
110	66,5	29,0	90	12,0	125	23,0	60,0	97,0	62	31,0	68,5	10,5	17	11	41	14	53	5,5	315	250 009
135	76,6	32,6	115	6,5	147	27,8	71,8	115,8	68	34,0	74,5	10,5	17	11	50	14	53	8,3	315	250 010
90	51,0	22,8	60	6,5	90	20,7	45,7	70,7	40	19,5	43,5	8,4	15	9	24	8	2	1,9	500	250 011
100	53,0	23,5	80	9,5	100	17,0	46,5	76,0	46	23,0	49,5	10,5	17	11	30	10	3	3,2	500	250 012
110	66,5	29,0	90	12,0	125	23,0	60,0	97,0	62	31,0	68,5	10,5	17	11	41	14	53	5,5	315	250 014
135	76,6	32,6	115	6,5	147	27,8	71,8	115,8	68	34,0	74,5	10,5	17	11	50	14	53	8,3	315	250 015
90	51,0	22,8	60	6,5	90	20,7	45,7	70,7	40	19,5	43,5	8,4	15	9	24	8	2	1,9	500	250 016
100	53,0	23,5	80	9,5	100	17,0	46,5	76,0	46	23,0	49,5	10,5	17	11	30	10	3	3,2	500	250 017
110	66,5	29,0	90	12,0	125	23,0	60,0	97,0	62	31,0	68,5	10,5	17	11	41	14	53	5,5	315	250 018
135	76,6	32,6	115	6,5	147	27,8	71,8	115,8	68	34,0	74,5	10,5	17	11	50	14	53	8,3	315	250 019