



A line of ball valves and ideas



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Shut-off blocks with integrated bypass and safety-lock



Sandwich plates



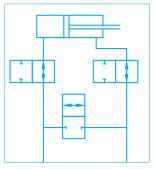
Accumulator safety blocks

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Shut-off blocks · technical information

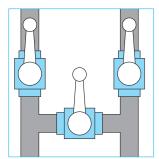


Shut-off blocks with integrated bypass and safety-lock



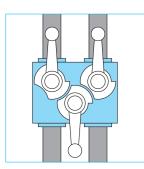
Application/function:

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 seperate 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:

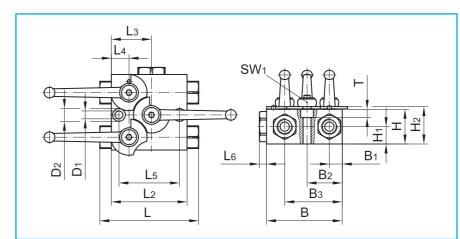
Combining the three shut-off functions within a single block by incorporating three ball valve assemblies. Only four pipe connections need to be made. A certain sequence in operation is achieved by cam interlocks on the ball valves:

- 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

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

Boo	dy:	steel, black oxide
Ball	:	steel, hard chrome plated
Ster	m:	steel, zinc plated
Ball	seals:	POM
Ster	m seals:	NBR

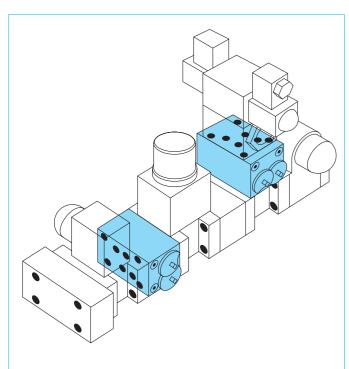
Type of connection	V	DN	Thread D	OD	L	L ₁	L2	Lз	L4	L5	L6	В	B1	B 2	Вз	Н	H1	H 2	D ₁	D ₂	Т	SW	SW ₁	Handle Code	Weight	PN	Article-No.
For cut (clamp)	\d	10	M18 x 1,5	12	120	11	90	51,0	22,8	60	6,5	90	20,7	45,7	70,7	40	19,5	43,5	8,4	15	9	24	8	13	1,9	500	250 001
ring tube			M22 x 1,5	15	132	12	100	53.0	,	80		100	17,0	46,5	76,0	46	23,0	49,5	10,5	17	11	30		14	3,2	500	250 001
fittings * 7 0	+ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$ $+$		M30 x 2	22	149	14	110	66,5		90	12,0		23,0	60,0	97.0	62	31,0	68,5	10,5	17	11			15	5,5	400	250 002
DIN 2353 light series ISO 8434-1	_L1_		M36 x 2	28	173	14	135		32,6	115		147	27,8	,	115,8	68	34,0	74,5	10,5	17	11		14	15	8,3	400	250 005
For cut (clamp) ring tube	\backslash \Box		M22 x 1,5 M24 x 1,5	14 16	126 136	14 14	90	51,0 53,0	,	60 80	6,5	90	20,7 17,0	45,7 46,5	70,7 76,0	40 46	19,5 23,0	43,5 49,5	8,4 10,5	15 17	9	24	8 10	13 14	1,9 3,2	500 500	250 006 250 007
fittings 8 4 0 0	1-11-11-1		M36 x 2	25	157	18	110	66,5		90	12,0		23,0	60,0	97.0	62	31,0	68,5	10,5	17	11			15	5,5	400	250 007
heavy series ISO 8434-1	<u>L1</u>		M42 x 2	30	185	20	135	76,6		115		147	27,8		115,8	68	34,0	74,5	10,5	17	11	50	14	15	8,3	400	250 009
sw	V	10	G ³ /8	-	118	14	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	13	1,9	500	250 011
BSP-female thread		12	G 1/2	-	131	15	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	14	3,2	500	250 012
DIN EN ISO 228-1		20	G ³ / ₄	-	143	18	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	15	5,5	400	250 014
	L ₁		G 1	-	178	18	135	76,6	32,6	115		147	27,8	71,8	115,8	68	34,0	74,5	10,5	17	11	50	14	15	8,3	400	250 015
SW NPT-female thread					118	10,3	90	51,0		60	6,5		20,7	45,7	70,7	40	19,5	43,5	8,4	15	9	24	8	13	1,9	500	250 016
ANSI/ASME		12	¹ / ₂ -14 NP		131	13,6	100	53,0		80		100	17,0	46,5	76,0	46	23,0	49,5	10,5	17	11	30	10	14	3,2	500	250 017
B1.20.1-1983		20	3/4 -14 NP		143	14,1	110	66,5		90	12,0		23,0	60,0	97,0	62	31,0	68,5	10,5	17	11	41	14	15	5,5	400	250 018
<u>+</u>		25	1 -11 ¹ / ₂ NP	PT -	178	16,8	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	15	8,3	400	250 019

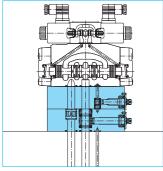
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Sandwich plates · technical information



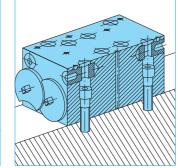
Shut-off plates and sandwich elements for interconnected systems





Operation setting:

Sandwich plate with the solenoid valve mounted on top



Repair setting:

Passages inside the sandwich plate shut-off; plate remains bolted to the hydraulic control block. Solenoid valve removed.

The previous situation:

The large number of control elements means large systems susceptible to malfunctions. If, for example, a solenoid valve at the central hydraulic system for an aluminium rolling mill failed, the controlled component would have to be operated manually or production would have to be suspended to change the valve.

This replacement makes it necessary to depressurize the system, to prop up external loads which cylinders are supporting and to drain the fluid from the riser lines to the cylinder. Once the solenoid valve has been changed, the lines will have to be refilled and bled.

Our solution for the problem:

With the use of our sandwich-plate, which is bolted seperately to the control block, all the channels through the plate can be blocked and the directional-control valve can be replaced without having to depressurize or drain lines and without affecting the other control units on the same block. All channels are open during normal operation. The operating handle can be removed to prevent unauthorized actuation.

Advantages:

- full bore design causes no pressure drop
- significant reduction in hydraulic system downtime
- no need to drain fluid, bleed air or refill the system
- simplified start-up and maintenance due to the ease of changing flushing plates and directional valves

 pressure can be maintained in cylinders so that the supported loads do not need to be shored up

- standard mounting and porting patterns allow retrofit without rework
- proprietary design increases safety by utilizing separate mechanically isolated bolts for mounting the sandwich-plate and directional valve; removing the directional valve cannot accidentally loosen the sandwich-plate

Applications:

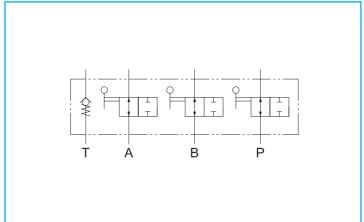
For liquid media as per the compatibility table in the technical data appendix

On reques

Limit switch, proximity switch, locking devices; also available in other materials and combinations

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Sandwich plates · NG 6 · PN 315



Article-No. 208 030

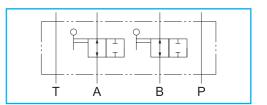
Weight: 1,55 kg

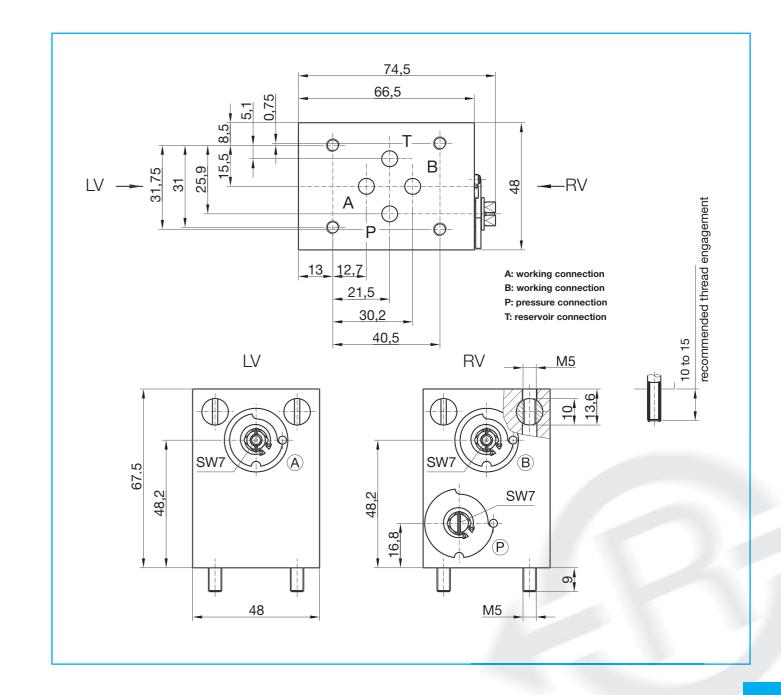
Opening pressure of check valve: approx. 0,3 bar Drilling pattern to DIN 24340-A6 and ISO 4401-03-02-0-94

Custom orders on request

All dimensions subject to change without notice
Also available with blocking in A and B only

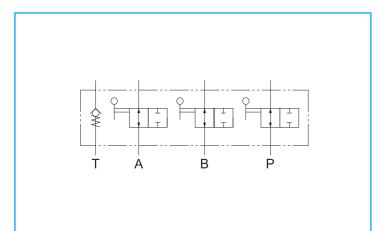
Dimension sheet on request, locking device retrofittable





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Sandwich plates · NG 10 · PN 315



Article-No. 208 032

Weight: 4,45 kg

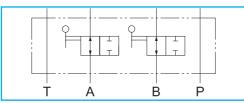
Opening pressure of check valve: approx. 0,3 bar Drilling pattern to DIN 24340-A10 and

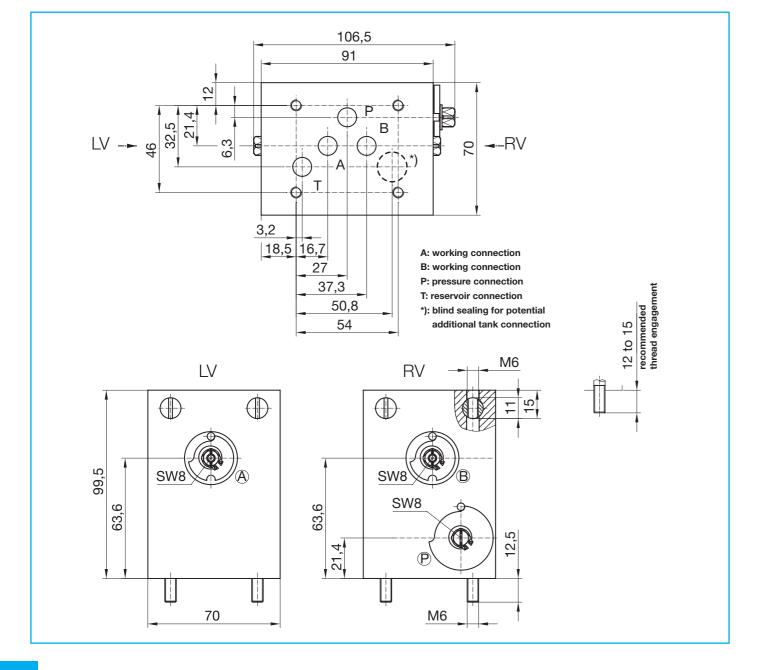
ISO 4401-05-04-0-94

Custom orders on request

All dimensions subject to change without notice Also available with blocking in A and B only

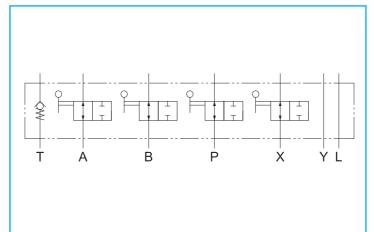
Dimension sheet on request, locking device retrofittable





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Sandwich plates · NG 16 · PN 315



Article-No. 208 034

Weight: 11,7 kg

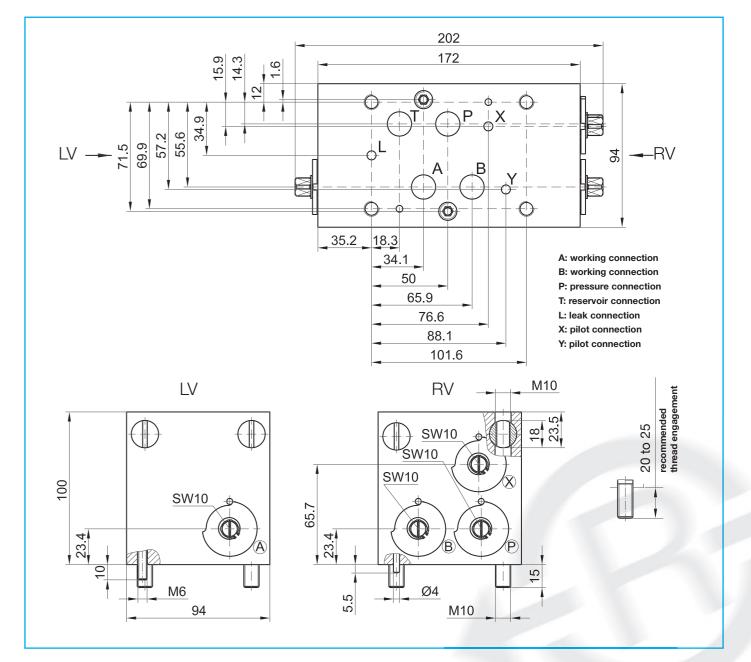
Opening pressure of check valve: approx. 0,3 bar Drilling pattern to DIN 24340-A16 and ISO 4401-07-06-0-94

Custom orders on request

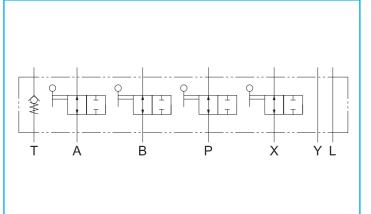
All dimensions subject to change without notice Also available with blocking in A and B only

Dimension sheet on request, locking device retrofittable

PXYL



Sandwich plates · NG 25 · PN 315



Article-No. 208 036

Weight: 25,4 kg

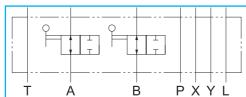
Opening pressure of check valve: approx. 0,3 bar Drilling pattern to DIN 24340-A25 and $\,$

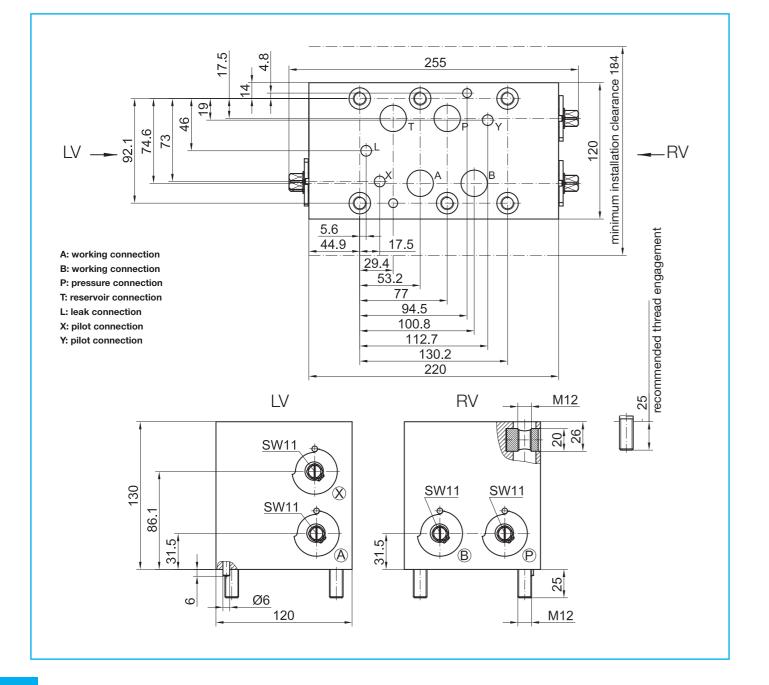
ISO 4401-08-07-0-94

Custom orders on request

All dimensions subject to change without notice Also available with blocking in A and B only

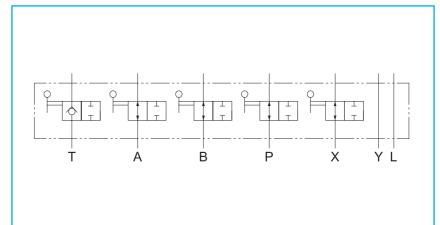
Dimension sheet on request, locking device retrofittable







Sandwich plates · NG 32 · PN 315



Article-No. 208 038

Weight: approx. 60 kg

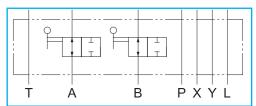
Drilling pattern to DIN 24340-A32 and ISO 4401-10-08-0-94

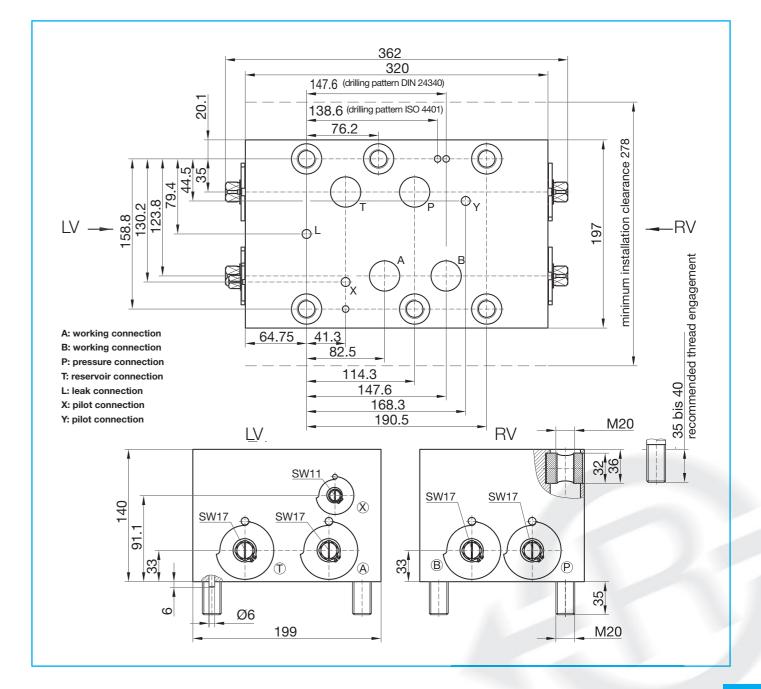
Custom orders on request

All dimensions subject to change without notice

also available with blocking in A and B only

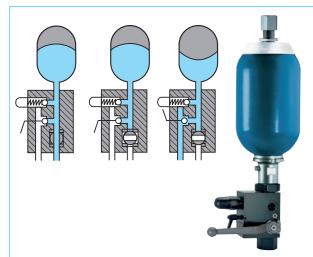
Dimension sheet on request, locking device retrofittable





Accumulator safety blocks · with integrated 2-way ball valve type RSA Technical information





Securing, isolating and depressurising hydraulic pressure accumulators:

Simple operation stands for absolute operational safety. Depending on the position of the handle, the passage from the system to the accumulator will be opened or closed. The accumulator block can be kept pressurised with the valve in the closed status (battery configuration). The accumulator can be relieved manually with the integrated valve. - Refer to "3-way accumulator safety blocks" if automatic relief is desired.

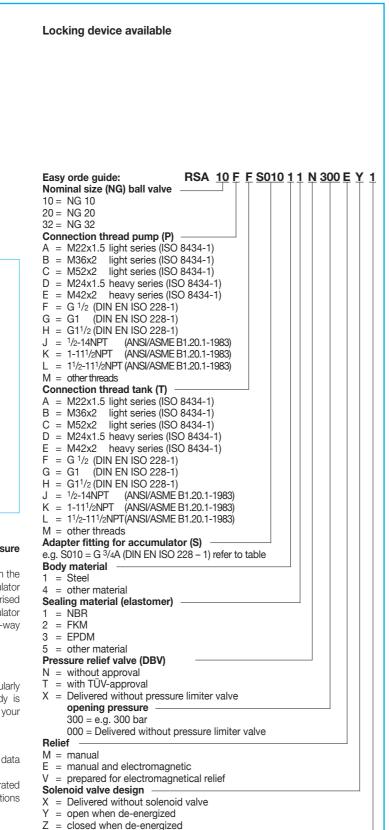
Flexibility thanks to a modular design:

The modular design concept makes the safety block particularly economical and flexible to meet customer requirements. The body is assembled at the factory with adapter fittings in accordance with your order.

Applications/functions:

For liquid media as per the compatibility table in the technical data appendix

The accumulator safety blocks can be supplied with solenoid-operated relief valves if desired. Every block is equipped with the connections required for retrofitting.



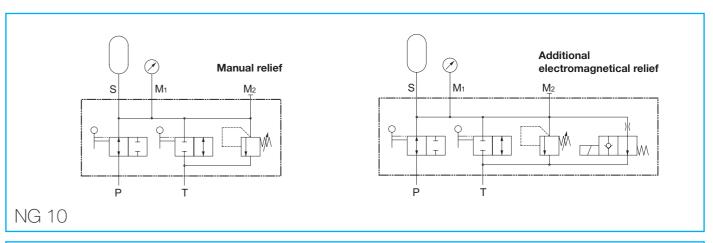
Solenoid valve voltage

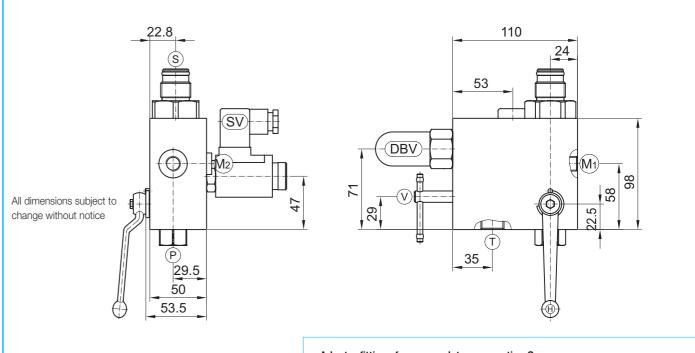
1 = 24 V DC 2 = 230 V DC

0 = Delivered without solenoid valve



Accumulator safety blocks · with integrated 2-way ball valve type RSA





P = Pump connection M-version 400 bar

M-version 400 bar E-version 350 bar

T = Tank connection

S = Accumulator connection

M₁ = Test gauge connection G¹/₄ (DIN EN ISO 228-1)

M₂ = Pressure gauge connection (closed) G¹/₄ (DIN EN ISO 228-1)

DBV = Pressure relief valve cavity-thread M28x1.5

assembly torque 50+5 Nm

SV = 2-way-solenoid valve
cavity-thread M20x1.5
assembly torque 25+5 Nm

(manual relief closed)

V = Pressure relief

H = Handle Code 13 (8kt8)

refer to chapter "Attachments, accessories"

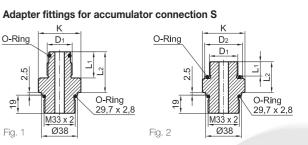


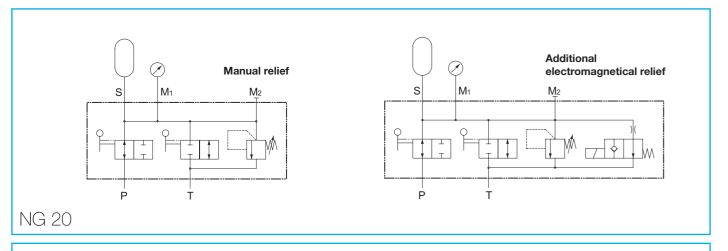
Fig.	D ₁ Connection- thread	Adapter- fitting	K (SW)	L ₁	L ₂	D ₂	O-Ring
	G ³ / ₄ A	S010	41	28	43,5	_	17 x 3
1	G 1 A	S011	46	34	50,5	-	22 x 3
	G 11/4 A	S012	46	37	53,5	-	30 x 3
	G 2A	S013	65	44	64,5		48 x 3
	M 30 x 1,5	S020	41	15	32,5	40	32 x 2
2	M 40 x 1,5	S021	55	20	40,5	54	43 x 3
	M 50 x 1,5	S022	65	20	40,5	64	53 x 3
Also a	available with most other	er connection	าร				

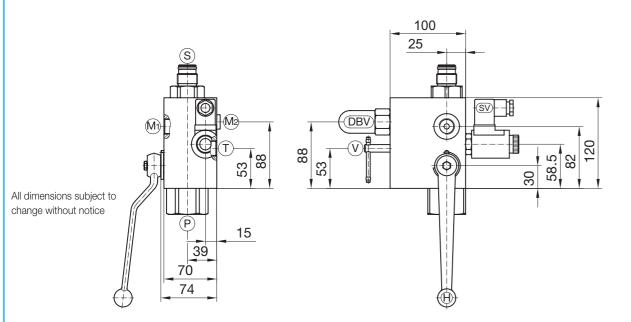
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Accumulator safety blocks · with integrated 2-way ball valve type RSA

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Accumulator safety blocks · with integrated 2-way ball valve type RSA





- P = Pump connection M-version 400 bar E-version 350 bar
- T = Tank connection
- S = Accumulator connection G¹/₂ (DIN EN ISO 228-1)
- M₂ = Pressure gauge connection (closed) G¹/₄ (DIN EN ISO 228-1)
- DBV = Pressure relief valve cavity-thread M35x1.5 assembly torque 80+5 Nm
- SV = 2-way-solenoid valve cavity-thread M20x1.5 assembly torque 25+5 Nm (manual relief closed)
- V = Pressure relief
- H = Handle Code 15 (8kt14) refer to chapter "Attachments, accessories"

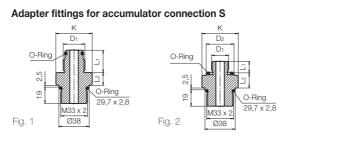
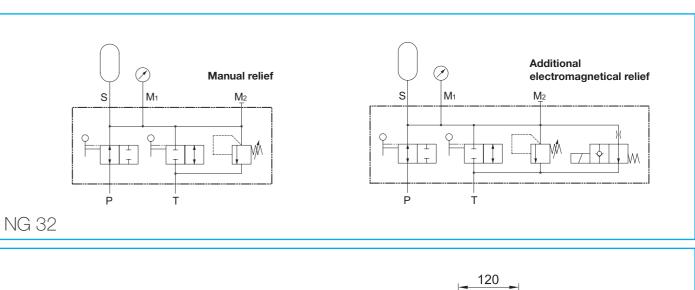


	Abb.	D ₁ Connection- thread	Adapter- fitting	K (SW)	L ₁	L ₂	D ₂	O-Ring
		G ³ / ₄ A	S010	41	28	43,5	-	17 x 3
	1	G 1 A	S011	46	34	50,5	-	22 x 3
		G 11/4 A	S012	46	37	53,5	-	30 x 3
		G 2A	S013	65	44	64,5	-	48 x 3
		M 30 x 1,5	S020	41	15	32,5	40	32 x 2
	2	M 40 x 1,5	S021	55	20	40,5	54	43 x 3
		M 50 x 1,5	S022	65	20	40,5	64	53 x 3
ı								

M 50 x 1,5 S022 65 20 40,5 64 53 x 3 refer to chapter "Attachments, accessories"

Also available with most other connections



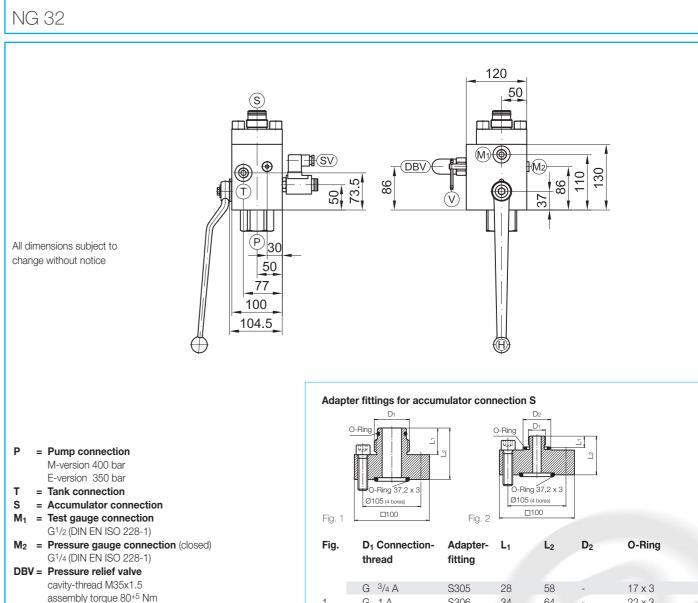


Fig.	D ₁ Connection- thread	Adapter- fitting	L ₁	L ₂	D ₂	O-Ring
	G ³ / ₄ A	S305	28	58	-	17 x 3
1	G 1 A	S306	34	64	-	22 x 3
	G 1 ¹ / ₄ A	S307	37	67	-	30 x 3
	G 2A	S309	44	74	•	48 x 3
	M 30 x 1,5	S330	15	47	45	32 x 2
2	M 40 x 1,5	S340	20	51	60	43 x 3
	M 50 x 1,5	S350	20	51	75	53 x 3

<mark>16</mark>

SV = 2-way-solenoid valve

V = Pressure relief

cavity-thread M20x1.5 assembly torque 25+5 Nm

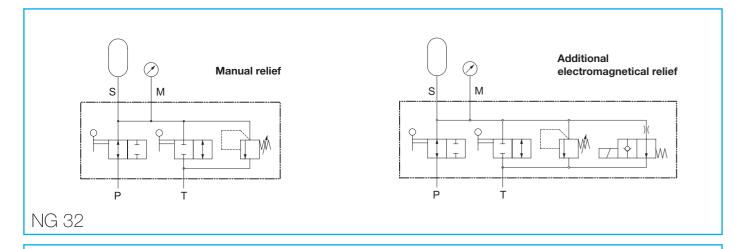
(manual relief closed)

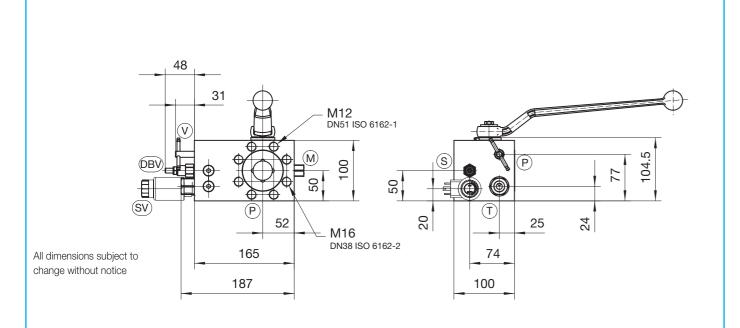
H = Handle Code 21 (8kt17)

Accumulator safety blocks · with integrated 2-way ball valve type RSA

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= Pump connector

DN 38 ISO 6162-2 (metric) DN 51 ISO 6162-1 (metric) M-version 350 bar E-version 350 bar

T = Tank connector 3/4 - 16 UNF-2B

= Accumulator connector DN 38 ISO 6162-2 (metric) DN 51 ISO 6162-1 (metric)

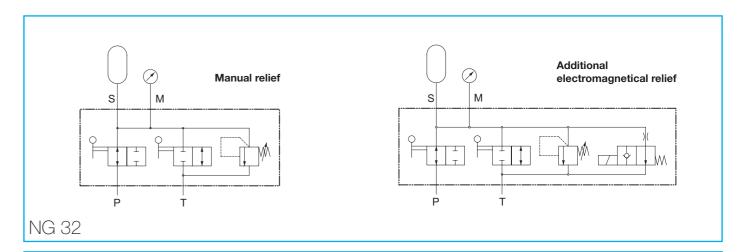
= Test gauge connection 1/4 - 18 NPT

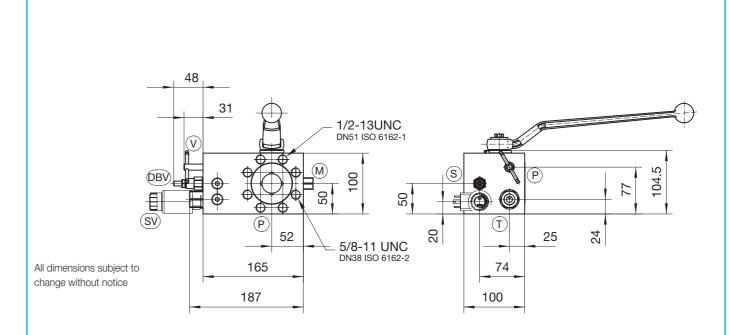
DBV = Pressure relief valve cavity-thread M16x1.5

assembly torque 35+5 Nm SV = 2-way Solenoid cavity-thread M20x1.5 assembly torque 45+5 Nm

(manual relief closed) V = Pressure relief

= Handle Code 21 (8kt17) refer to chapter "Attachments, accessories"





P = Pump connection

DN 38 ISO 6162-2 (UNC) DN 51 ISO 6162-1 (UNC) M-version 350 bar E-version 350 bar

T = Tank connection 3/4 - 16 UNF-2B

= Accumulator connection DN 38 ISO 6162-2 (UNC) DN 51 ISO 6162-1 (UNC)

M = Test gauge connection 1/4 - 18 NPT

DBV = Pressure relief valve

cavity-thread M16x1.5 assembly torque 35+5 Nm

SV = 2-way-solenoid valve cavity-thread M20x1.5 assembly torque 45+5 Nm

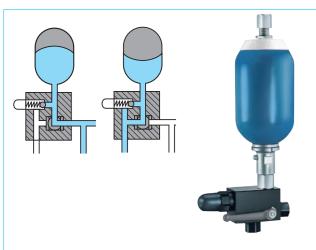
(manual relief closed) V = Pressure relief

= Handhebel Code 21 (8kt17)

refer to chapter "Attachments, accessories"

Accumulator safety blocks · with integrated 3-way ball valve type RSK Technical information





Securing, isolating and depressurizing hydraulic pressure accumulators:

Simple operation stands for absolute operational safety. Depending on the position of the handle, the passage from the system to the accumulator will be opened or – with simultaneous relief of the accumulator - closed. The integrated 3-way ball valve ensures that the system will be blocked off and the accumulator pressure relieved with just a single motion; this eliminates the need for an additional relief valve. If seperate isolation of the accumulator is desired, refer to the "Accumulator 2-way safety block" information.

Flexibility thanks to a modular design:

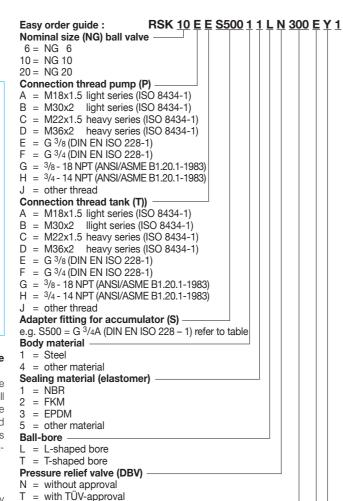
The modular design concept makes the connection block particularly economical and flexible to meet customer requirements. The body is assembled at the factory with adapter fittings in accordance with your

Applications/functions:

For liquid media as per the compatibility table in the technical data

The accumulator safety blocks can be supplied with solenoid-operated relief valves if desired. Every body is equipped with the fittings required for retrofitting. When connected to large-volume accumulators the safety block can be ordered with a choke integrated into the bypass line.

Locking device available



X = Delivered without pressure limiter valve

= prepared for electromagnetical relief

000 = Delivered without pressure limiter valve

opening pressure

300 = e.g. 300 bar

Solenoid valve design

Solenoid valve voltage

1 = 24 V DC

2 = 230 V DC

3 = other

E = manual and electromagnetic

= open when de-energized

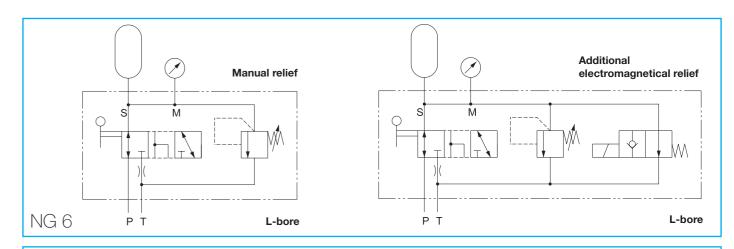
Z = closed when de-energized

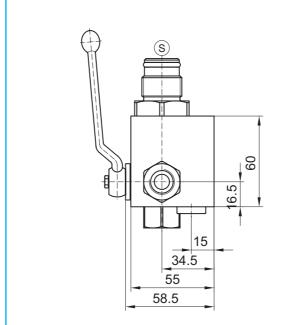
X = Delivered without solenoid valve

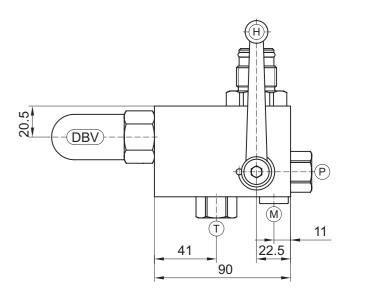
0 = Delivered without solenoid valve



Accumulator safety blocks \cdot with integrated 3-way ball valve type RSK







All dimensions subject to change without notice

P = Pump connection M-version 500 bar

E-version 350 bar

T = Tank connection

S = Accumulator connection

M = Pressure gauge connection (closed) G ¹/₄ (DIN EN ISO 228-1)

DBV = Pressure relief valve cavity-thread M28x1.5

assembly torque 50⁺⁵ Nm **SV = 2-way Solenoid**

manifold mounting drilling pattern ISO 4401-03-02-0-94 (DIN 24340-A6)

H = Handle Code 13 (8kt8)

refer to chapter "Attachments, accessories"

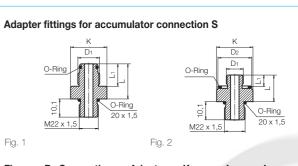
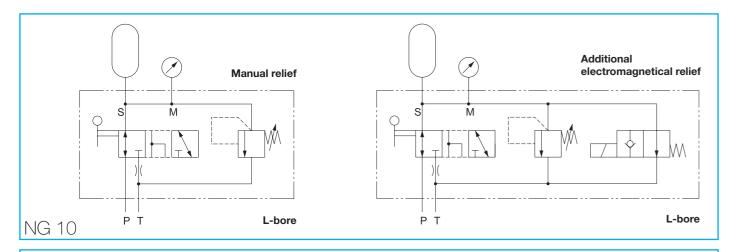


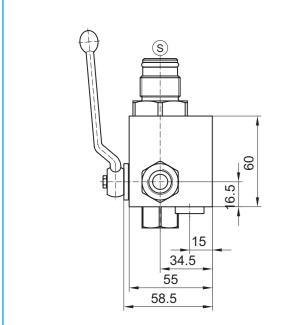
Fig.	D ₁ Connection- thread	Adapter- fitting	K (SW)	L	L ₁	D ₂	O-Ring
	G ³ /4 A	S 500	36	38	28		17 x 3
						-	
1	G 1A	S 501	41	44	34	-	22 x 3
	G 11/4 A	S 502	46	47	37	-	30 x 3
	G 2A	S 503	65	54	44		48 x 3
	M 30 x 1,5	S 550	41	25	15	40	32 x 2
2	M 40 x 1,5	S 551	55	30	20	54	43 x 3
	M 50 x 1,5	S 552	65	30	20	64	53 x 3
Alco o	vailable with most oth	or connection	20				

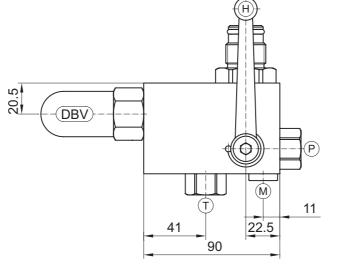
Also available with most other connection

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Accumulator safety blocks \cdot with integrated 3-way ball valve type RSK







Adapter fittings for accumulator connection S

All dimensions subject to change without notice

P = Pump connection

M-version 500 bar E-version 350 bar

T = Tank connection

= Accumulator connection

= Pressure gauge connection (closed) G 1/4 (DIN EN ISO 228-1)

DBV = Pressure relief valve

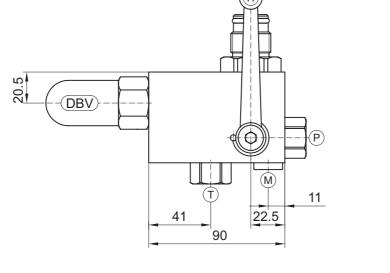
cavity-thread M35x1.5 assembly torque 80+5 Nm

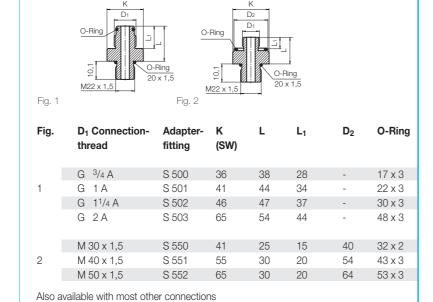
SV = 2-way-solenoid valve

drilling pattern ISO 4401-03-02-0-94 (DIN 24340-A6)

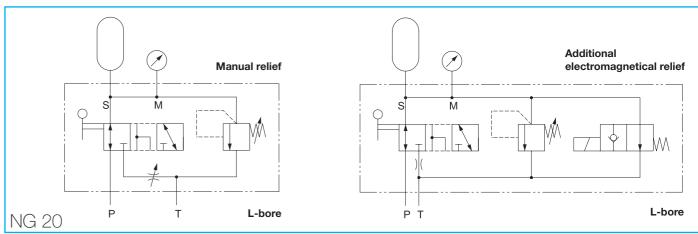
H = Handle Code 13 (8kt8)

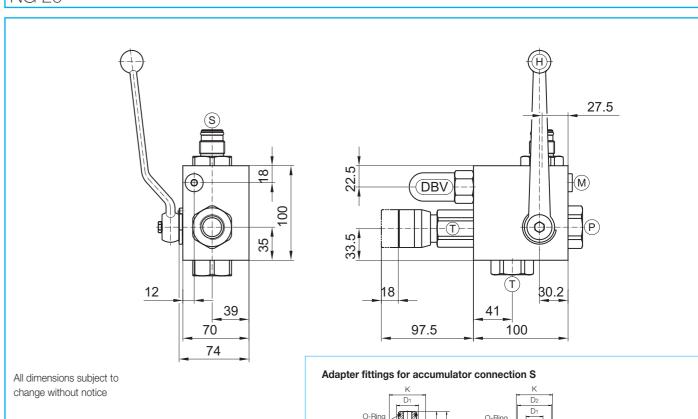
refer to chapter "Attachments, accessories"





Accumulator safety blocks · with integrated 3-way ball valve type RSK





EV = Pressure relief valve

(selectively manualy electromagnetic)

= Pump connection M-version 315 bar

E-version 315 bar T = Tank connection

= Accumulator connection

= Pressure gauge connection (closed) G 1/4 (DIN EN ISO 228-1)

DBV = Pressure relief valve cavity-thread M35x1.5

assembly torque 80+5 Nm SV = 2-way-solenoid valve

manifold mounting drilling pattern ISO 4401-03-02-0-94

(DIN 24340-A6)

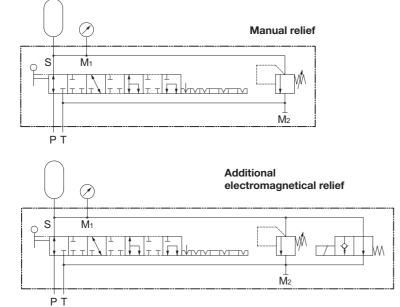
H = **Handle Code 15** (8kt14) refer to chapter "Attachments, accessories"

Adapte	er fittings for accumulat	tor connection S
	K	. K
	O-Ring O-Ring M36 x 1,5	O-Ring O-Ring O-Ring M36 x 1,5
Fig. 1		Fig. 2

Fig.	D ₁ Connection- thread	Adapter- fitting	K (SW)	L	L ₁	D ₂	O-Ring
	G ³ / ₄ A	S 600	41	38	28	-	17 x 3
1	G 1A	S 601	41	44	34	-	22 x 3
	G 11/4 A	S 602	46	47	37	-	30 x 3
	G 2A	S 603	65	54	44		48 x 3
	M 30 x 1,5	S 650	41	25	15	40	32 x 2
2	M 40 x 1,5	S 651	55	30	20	54	43 x 3
	M 50 x 1,5	S 652	65	30	20	64	53 x 3
Also a	vailable with most oth	er connection	าร				

Accumulator safety blocks · with integrated 3-way ball valve type RSM Technical information





The multifunctional accumulator safety block RSM from Roetelmann unites all advantages of the already known 2- and 3-way pressure accumulator blocks and does provide additional functions, as well.

The operation of the RSM accumulator safety block now is extraordinary simple, but still safe, as it is effected by just one handle and a respective detent. The T-bore avoids any pressure drop during the working position.

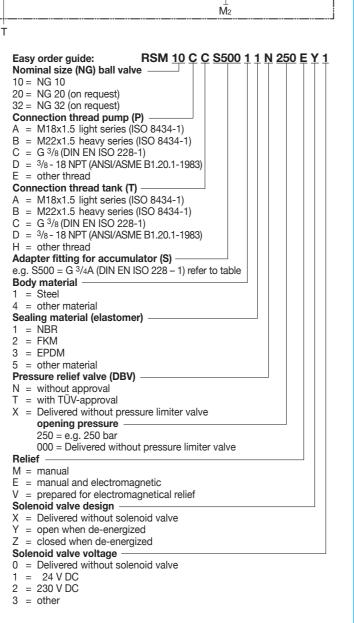
The following functions are provided:

- working position with a direct passage to the accumulator
- total closing of all ports, the pressure is kept in the accumulator
- relief of the accumulator to the tank
- total connection of all ports for filling the system
- depressurised circulation from the pump to the tank

Resulting from this great variety of functions, additional valves and ball valves are not necessary and therefore can be saved. As this principle was not known until now, the multifunctional accumulator safety block has been patented respectively

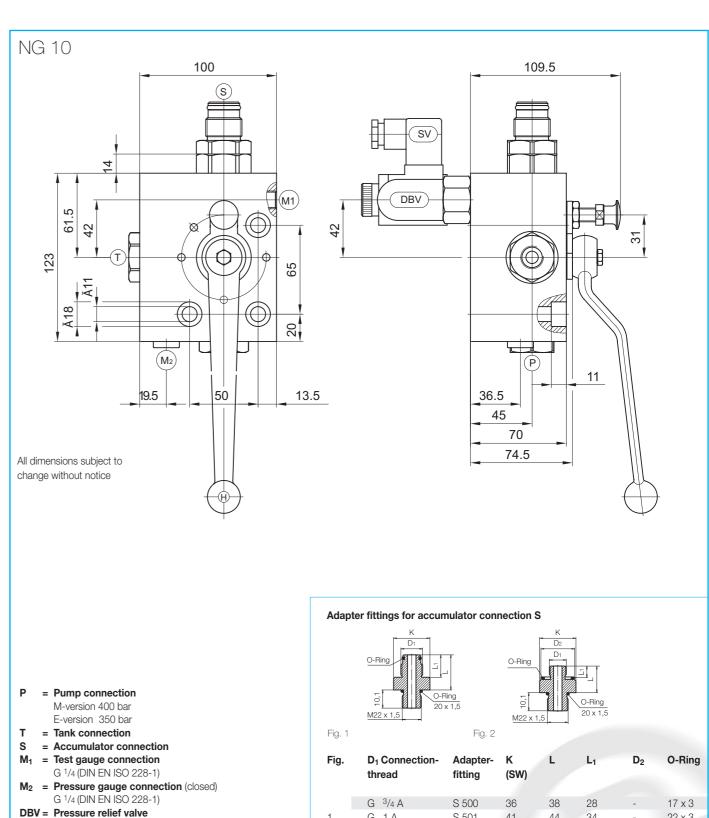
Custom orders on request

Locking device available





Accumulator safety blocks · with integrated 3-way ball valve type RSM



G 11/4 A 47 30 x 3 S 502 46 S 503 54 48 x 3 G 2A 40 M 30 x 1,5 S 550 25 32 x 2 M 40 x 1,5 S 551 55 30 54 43 x 3 M 50 x 1,5 S 552 30 64 refer to chapter "Attachments, accessories" Also available with most other connections

S 501

41

44

22 x 3

G 1 A

cavity-thread M28x1.5

cavity-thread M20x1.5

SV = 2-way-solenoid valve

H = Handle Code 15 (8kt14)

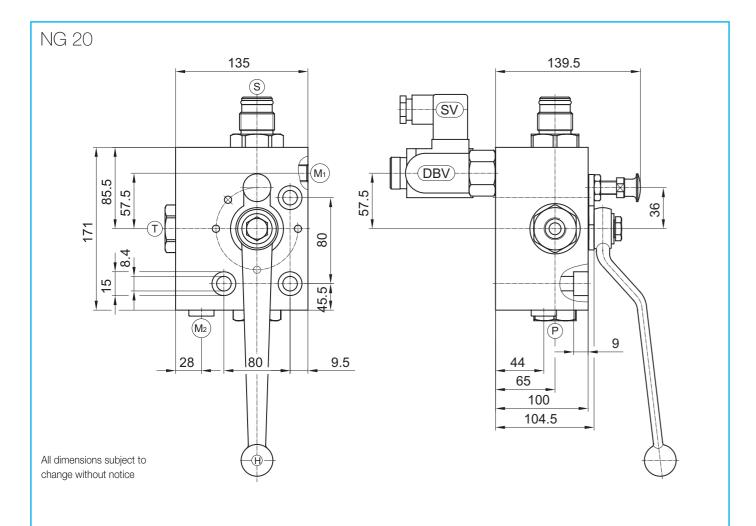
assembly torque 50+5 Nm

assembly torque 25+5 Nm

Accumulator safety blocks · with integrated 3-way ball valve type RSM

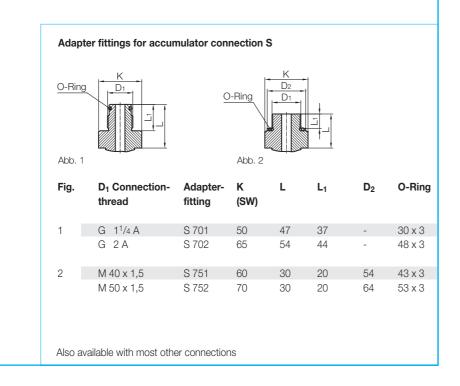
RÖTELMANN

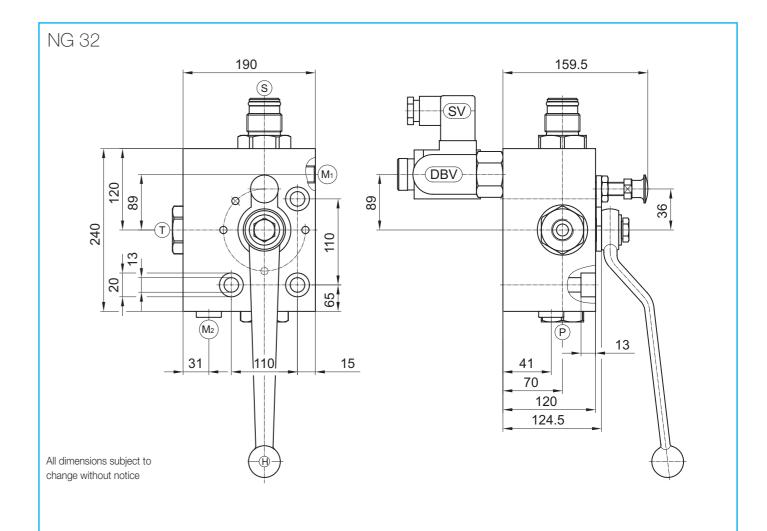
Accumulator safety blocks \cdot with integrated 3-way ball valve type RSM



NEW!

- = Pump connection
 - M-version 400 bar
- E-version 350 bar
- T = Tank connection S = Accumulator connection
- M₁ = Test gauge connection
- G ¹/₄ (DIN EN ISO 228-1) **M₂ = Pressure gauge connection** (closed)
- G 1/4 (DIN EN ISO 228-1) **DBV = Pressure relief valve**
- cavity-thread M35 x 1.5 assembly torque 80+5 Nm
- SV = 2-way-solenoid valve cavity-thread M20 x 1.5
- assembly torque 25+5 Nm **H** = **Handle Code 23** (8kt19)
- H = Handle Code 23 (8kt19)
 refer to chapter "Attachments, accessories"





NEW!

- P = Pump connection GM-version 400 bar E-version 350 bar
- = Tank connection
- S = Accumulator connection
- M₁ = Test gauge connection
- $\label{eq:G1/4} G \ ^{1/4} \ (DIN \ EN \ ISO \ 228-1)$ $\ \textbf{M_2} \ \ = \ \textbf{Pressure gauge connection} \ (closed)$
- G ¹/4 (DIN EN ISO 228-1)
- DBV = Pressure relief valve cavity-thread M35 x 1.5
- assembly torque 80+5 Nm SV = 2-way-solenoid valve
- cavity-thread M20 x 1.5 assembly torque 25+5 Nm
- H = Handle Code 23 (8kt19) refer to chapter "Attachments, accessories"

O-Ring Fig. 1	er fittings for accur		D-Ring Fig. 2	K D2 D1			
Fig.	D ₁ Connection- thread	Adapter- fitting	K (SW)	L	L ₁	D ₂	O-Ring
1	G 2A	S 803	70	54	44	-	48 x 3
2	M 50 x 1,5	S 852	70	30	20	64	53 x 3

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