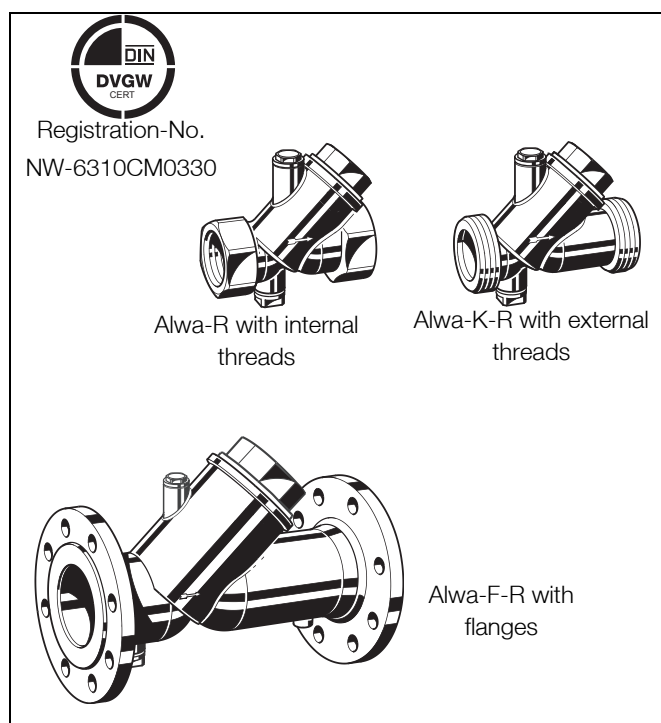


V4220

Alwa-R Backflow preventer

Product specification sheet



Construction

The Alwa-R consists of:

- Y-pattern valve housing with test cock. Available pipe connections see Dimensions and Ordering Information
- Valve insert with backflow preventer
- Pipe connection (accessory)
- Draining facility (optional)

Materials

- Red bronze housing
- Valve insert made of red bronze and brass
- Cone made of plastic
- Spring made of stainless steel
- Soft seals made of EPDM
- EPDM seat sealing
- Optional draining facility made of red bronze, brass and plastic (VA3401A).

Application

The Alwa-R is used as backflow preventer in potable water installations. The backflow preventer with an opening pressure of ≤ 10 mbar stops water from flowing back through the valve.

The valve insert with integrated backflow preventer is available as spare part and fits into all valve housings with dimensions according to DVGW.

Alwa-R valves are available with various pipe connections. Alwa-K-R valves are equipped with larger external threads specially suitable for pipe connections of various plastic pipes.

Alwa-valves are low noise to DVGW and noise protection regulations.

Valves with draining facility allow draining of the system over the valve.

Alwa-R backflow preventer are DVGW-certified under certification-no. NW-6310CM0330.

Special Features

- All parts with contact to the flow made of corrosion-resistant red bronze
- Opening pressure ≤ 10 mbar (up to DN 50)
- Cavity-free valve insert
- EPDM seat sealing
- Valve housing PN16 with test cock
- Draining facility (accessoires)
- Various pipe connections available

Technical Data

Medium	Water
Operating temperature	max. 90 °C
Operating pressure	max. 16 bar
Opening pressure	≤ 10 mbar

k_{VS} -value	Alwa-R	Alwa-F-R
DN15	5.1	5.1
DN20	10.6	10.6
DN25	17.1	17.1
DN32	29.0	29.0
DN40	35.1	35.1
DN50	64.5	64.5
DN65	-	132.0
DN80	-	193.0

Dimensions

All dimensions in mm unless stated otherwise.

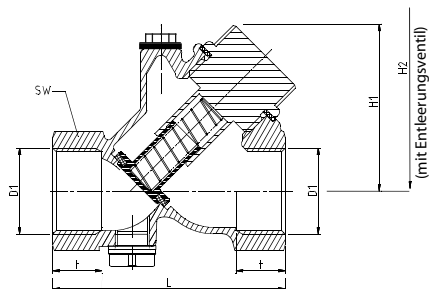


Fig. 1 Alwa-R with internal thread

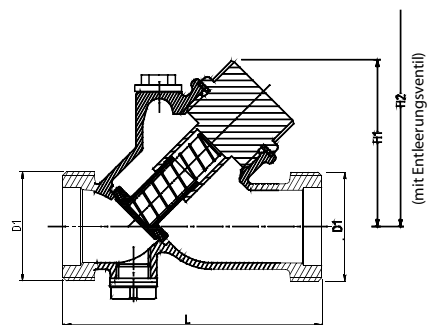


Fig. 2 Alwa-R with external thread

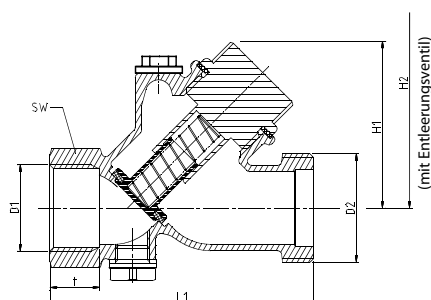


Fig. 3 Alwa-R, internal thread on inlet, external thread on outlet

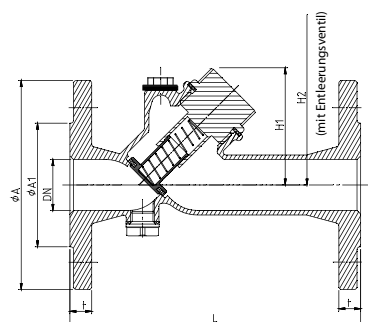


Fig. 4 Alwa-F-R with flanges

DN	kvs	D1	H1	H2	L	SW	t
15	5.1	R 1/2"	60	90	65	27	15.0
20	10.6	R 3/4"	65	95	75	32	16.3
25	17.1	R 1"	65	125	90	41	19.1
32	29.0	R 1 1/4"	85	130	110	50	21.4
40	35.1	R 1 1/2"	90	140	120	55	21.4
50	64.5	R 2"	100	160	150	70	25.7

Table 1 Alwa-R with internal thread

DN	kvs	D1	H1	H2	L1
15	5.1	G 3/4"	60	90	70
20	10.6	G 1"	65	95	81
25	17.1	G 1 1/4"	65	125	98
32	29.0	G 1 1/2"	85	130	117
40	35.1	G 1 3/4"	90	140	130
50	64.5	G 2 3/8"	100	160	152

Table 2 Alwa-R with external thread

DN	kvs	D1	D2	H1	H2	L1	SW
15	5.1	R 1/2"	G 3/4"	60	90	71.5	27
20	10.6	R 3/4"	G 1"	65	95	84.5	32
25	17.1	R 1"	G 1 1/4"	65	125	102	41
32	29.0	R 1 1/4"	G 1 1/2"	85	130	122	50
40	35.1	R 1 1/2"	G 1 3/4"	90	145	134	55
50	64.5	R 2"	G 2 3/8"	100	160	160	70

Table 3 Alwa-R, internal thread on inlet, external thread on outlet

DN	kvs	L	t	A	A1	H1	H2
15	5.1	130	10	95	45	60	90
20	10.6	150	11	105	58	65	95
25	17.1	160	11	115	68	65	125
32	29.0	180	12	140	78	85	130
40	35.1	200	12	150	88	90	140
50	64.5	230	14	165	102	100	160
65	132.0	290	14	185	122		
80	193	310	15	200	138		

Table 4 Alwa-F-R with flanges

Order information

Table 5 Ordering information and OS-Nos. (OS = Ordering System)

Ordering text	Inlet connection type	Outlet connection type	Os.-No.	DN	15	20	25	32	40	50
				mm	15	22	28	35	42	54
				R	3/4"	1"	1 1/4"	1 1/2"	1 3/4"	2 3/8"
				G	1/2"	3/4"	1"	1 1/4"	1 1/2"	2"
Alwa-R										
- with blind plug	Internal thread	Internal thread	V4220YY...		015	020	025	032	040	050
- with blind plug	External thread	External thread	V4220XX...		015	020	025	032	040	050
- with blind plug	Internal thread	External thread	V4220YX...		015	020	025	032	040	050
Alwa-F-R										
- with blind plug	Flanges	Flanges	V4220FF...		015	020	025	032	040	050

Accessories**Connections for external threads****Union nut, sealing and red bronze soldering tailpiece**

DN 15, for 15 mm pipe-Ø	VA7400A015
DN 15, for 18 mm pipe-Ø	VA7400A016
DN 20, for 22 mm pipe-Ø	VA7400A020
DN 25, for 28 mm pipe-Ø	VA7400A025
DN 32, for 35 mm pipe-Ø	VA7400A032
DN 40, for 42 mm pipe-Ø	VA7400A040
DN 50, for 54 mm pipe-Ø	VA7400A050

Union nut, sealing and externally threaded red bronze tail-piece

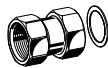
DN15	VA7401A015
DN20	VA7401A020
DN25	VA7401A025
DN32	VA7401A032
DN40	VA7401A040
DN50	VA7401A050

MAPRESS stainless compression-fitting with sealing

DN15, for 15 mm pipe-Ø	VA7403A015
DN15, for 18 mm pipe-Ø	VA7403A018
DN20, for 22 mm pipe-Ø	VA7403A020
DN25, for 28 mm pipe-Ø	VA7403A025
DN32, for 35 mm pipe-Ø	VA7403A032
DN40, for 42 mm pipe-Ø	VA7403A040
DN50, for 54 mm pipe-Ø	VA7403A050

Sanpress red bronze crimp fitting with sealing

DN15, for 15 mm pipe-Ø	VA7404A015
DN15, for 18 mm pipe-Ø	VA7404A018
DN20, for 22 mm pipe-Ø	VA7404A020
DN25, for 28 mm pipe-Ø	VA7404A025
DN32, for 35 mm pipe-Ø	VA7404A032
DN40, for 42 mm pipe-Ø	VA7404A040
DN50, for 54 mm pipe-Ø	VA7404A050

Union nut, sealing and internally threaded red bronze tail-piece

DN 15	VA7405A015
DN 20	VA7405A020
DN 25	VA7405A025
DN 32	VA7405A032
DN 40	VA7405A040
DN 50	VA7405A050

Draining valve

for DN15 to DN25	VA3401A008
for DN32 to DN80	VA3401A010

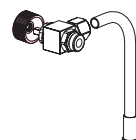
Blanking plugs (no Fig.)

for DN15 to DN80	VS3401A008
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Insulation shells

for valves DN15	VA2510C015
for valves DN20	VA2510C020
for valves DN25	VA2510C025
for valves DN32	VA2510C032
for valves DN40	VA2510C040
for valves DN50	VA2510C050

For product information see product data sheet 'VA2510C Insulation Shells'.

Alwa-Sampling valve

Sampling valve with connection V4250A008H size G1/4 for building valves up to DN 25

Sampling valve with connection V4250A010H size G3/8 for building valves from DN 32 to DN 80

Spare parts**Alwa-R valve insert with opening pressure ≤ 10 mbar for valve housings according to DVGW**

for valve housings DN15	VS1402B015
for valve housings DN20	VS1402B020
for valve housings DN25	VS1402B025
for valve housings DN32	VS1402B032
for valve housings DN40	VS1402B040
for valve housings DN50	VS1402B050

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