

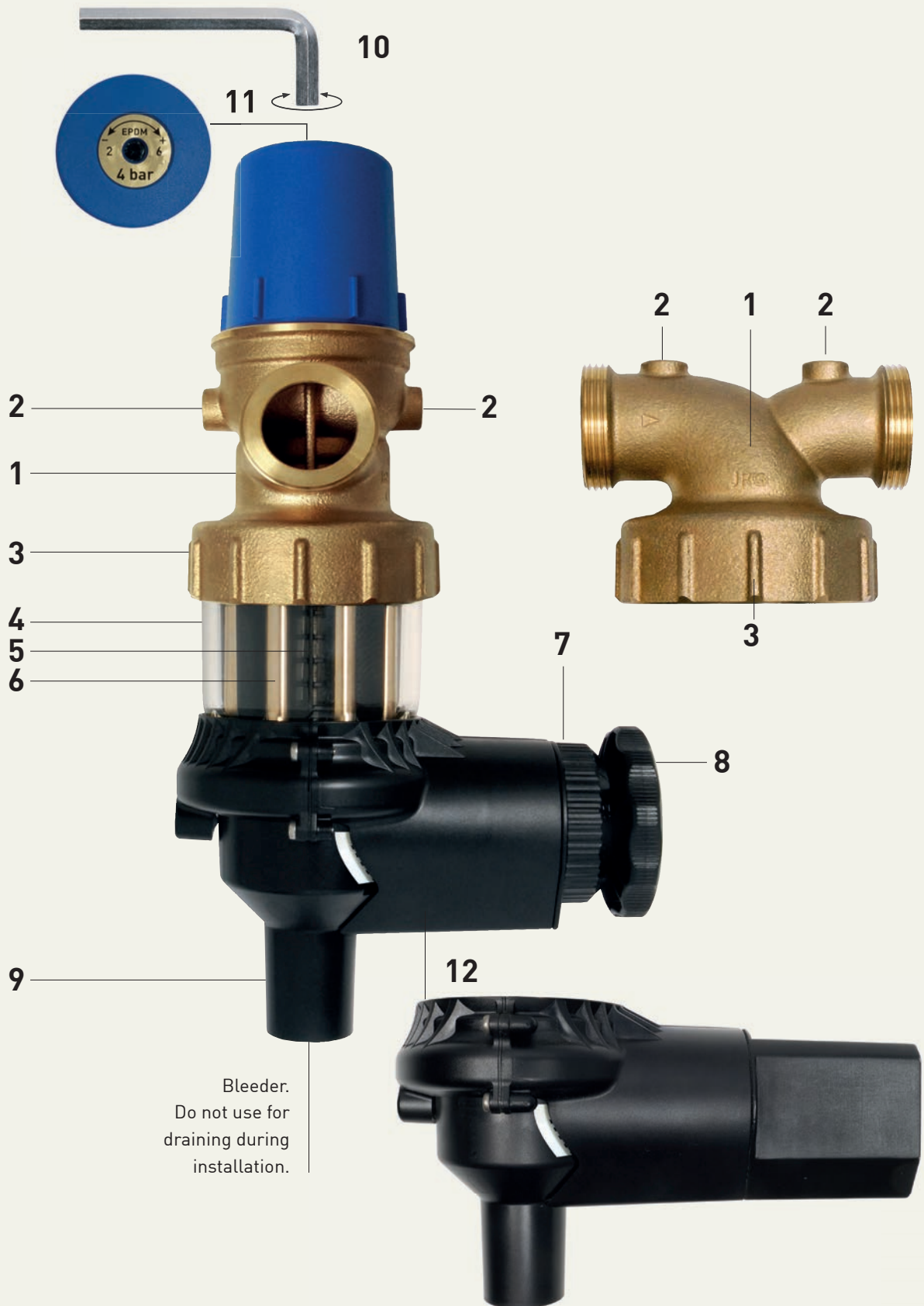
JRG Fittings

JRG CleanLine Combi & Filter

Technical Documentation



The new generation of backwashable filters



Particulate materials such as lime, rust or sand may enter the building water system via the mains as a result of repair or reconstruction works carried out on the public water system.

These particulate materials may not only impair the proper functioning of pressure reducing valves, relief valves and check valves. Therefore the origin of malfunctions of machineries, equipment and taps can also be attributed. Using a fine filter will help you avoid such awkward situations.

The new innovative backwash filter JRG CleanLine and JRG CleanLine Combi offers also during backwashing a constant filtration quality, like during normal operation.

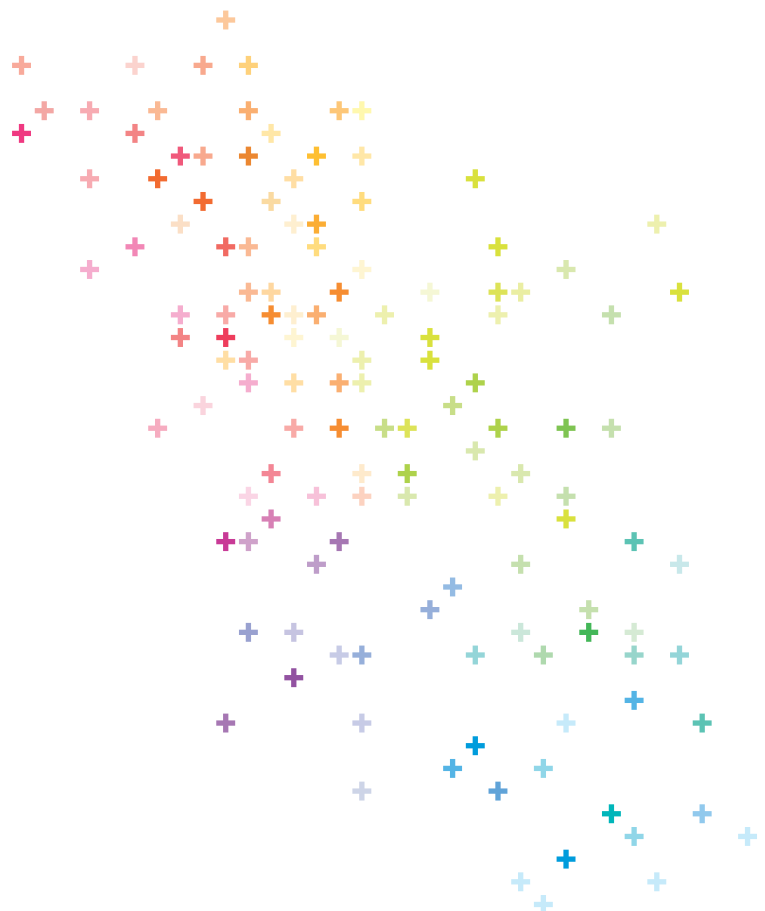
A bypass filter is not used to make sure that the entire filter surface is flushed at all times. To this end, the filter is divided into eight chambers. During the backwashing process one chamber is flushed at a time. Thus, the remaining seven chambers secure a consistent filtration quality.

The backwash has to be performed at least every two months for hygienic reasons. Please see the operating and maintenance instructions supplied with the filters for further information on the backwashing process of JRG CleanLine Combi and JRG CleanLine Filter.

The backwashable fine filter is designed for water filtration, it cannot replace a desired or required water treatment (softening, disinfection, etc.), though.

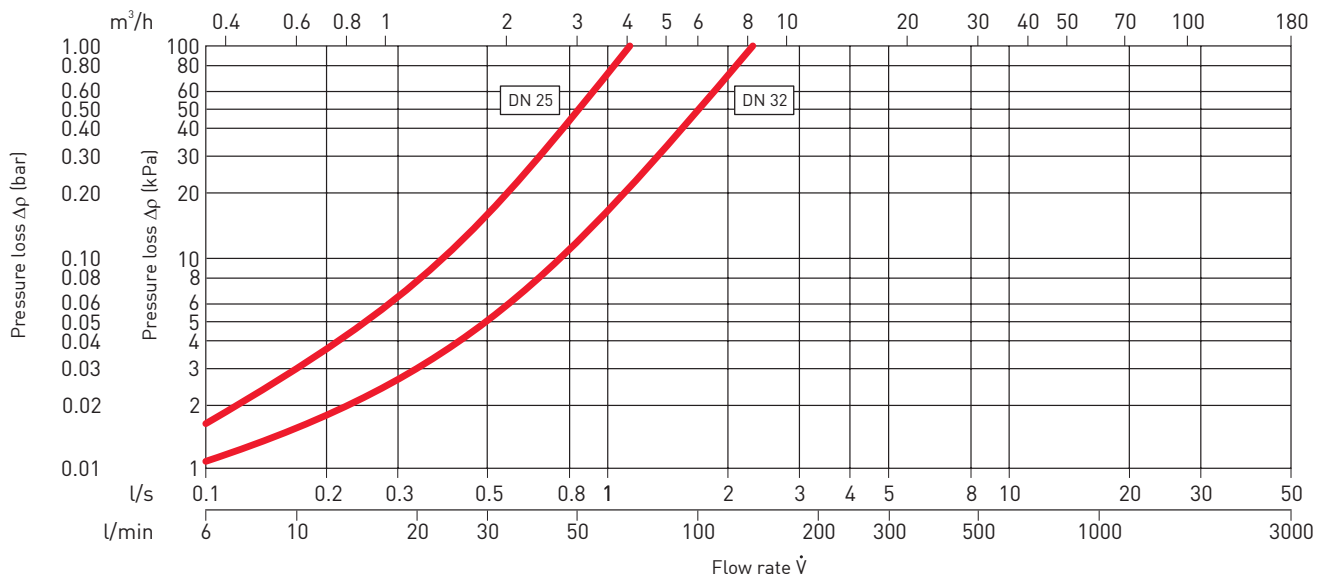
DVGW approved, SVGW approval pending.
Technical changes are reserved.

- 1 Body
- 2 Manometer connection/bleed screw
- 3 Nut
- 4 Filter cup
- 5 Filter insert
- 6 Follower
- 7 Month ring (gradations 1–12)
(only JRG Code 1370 et 1870)
- 8 Hand wheel
(only JRG Code 1370 et 1870)
- 9 Bleeder
- 10 Allen key
- 11 Pressure setting
- 12 Automatic backwash unit
(only JRG Code 1371 et 1871)

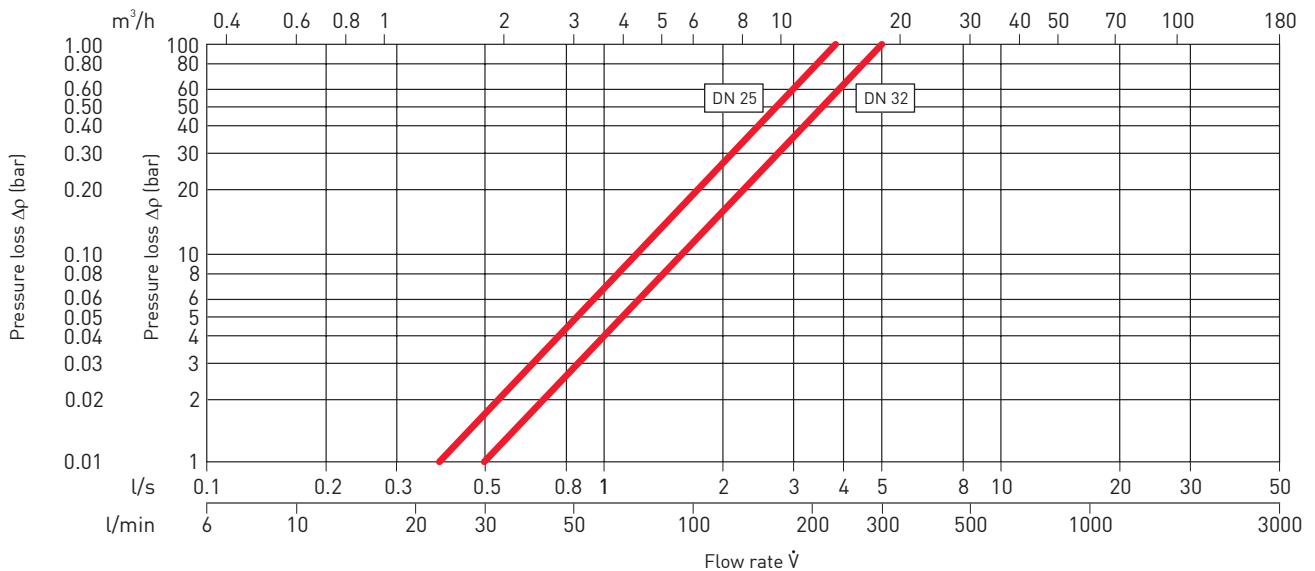


Nomograms

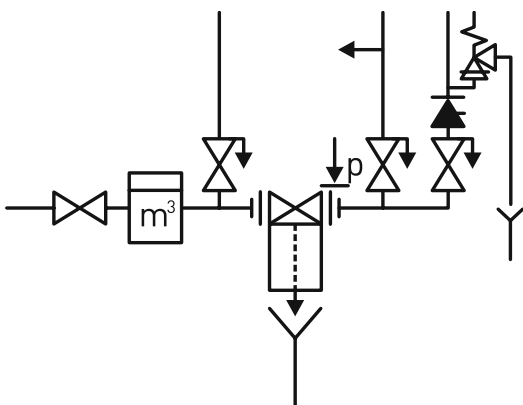
JRG CleanLine Combi (JRG Code 1370/1371)



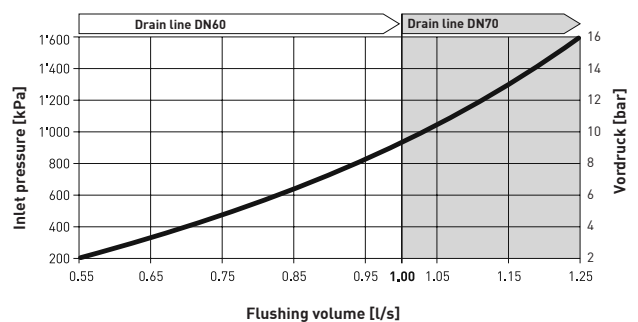
JRG CleanLine Filter (JRG Code 1870/1871)



Installation example



Flushing volume



During backwashing the filter, the following flushing volumes can be expected. Please see the installation instructions for further details.

Application

Application of JRG CleanLine Combi

The JRG CleanLine Combi domestic water station (filter → pressure reducing valve) is approved for the following parameters:

Water temperature:	max. 30°C
Inlet pressure:	min. 200 kPa (2 bar) max. 1'600 kPa (16 bar)
Outlet pressure:	200–600 kPa (2–6 bar)*

* Other settings upon request.

Note: Please refer to the operating and maintenance instructions when changing the factory-set pressure.

Application of JRG CleanLine Filter

The JRG CleanLine Filter is approved for the following parameters:

Water temperature:	max. 30°C
Pressure:	min. 200 kPa (2 bar) max. 1'600 kPa (16 bar)



Mounting position

Install the JRG CleanLine Combi domestic water station and the JRG CleanLine Filter free of stress in a horizontal line that can be easily accessed (bleeder pointing down). Observe a 40 mm clearance below to facilitate replacing the filter cup in future.

Protect the JRG CleanLine Combi and the JRG CleanLine Filter from strong UV radiation as well as from uncontrollable environmental factors (such as solvents or damp cleaning agents, etc.). Should you have any queries, please do not hesitate to contact us.

Installation instructions

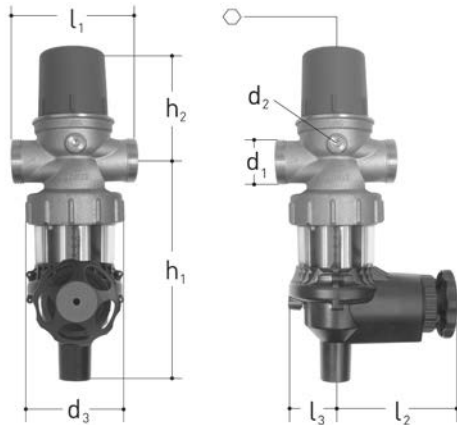
When installing the JRG CleanLine Combi and the JRG CleanLine Filter, local guidelines, regulations and standards must be observed.

Advantages of JRG CleanLine Combi and JRG CleanLine Filter

- No filter replacement required
- Constant filtration quality during backwashing
- Innovative, effective backwashing technology
- Minimum installation height
- Same lengths as JRGURED1300/1130 and JRGURED Combi 1350



JRG CleanLine



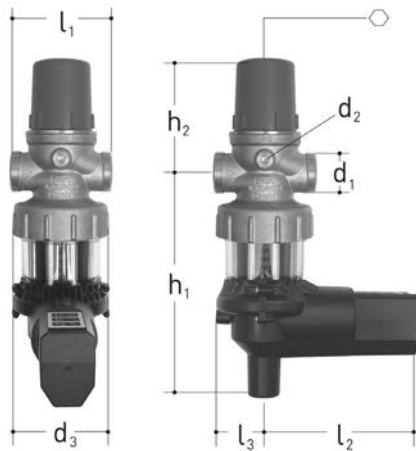
JRG CleanLine Combi

Back wash fine filter with pressure reducing valve PN 16.

Male threaded connections BR 1 according to EN ISO 228-1, without unions, threaded connection for pressure gauge valve closed with plug, gunmetal housing, plastic cover top; slide, seat and filter insert made of chrome nickel steel, EPDM valve seals and membrane, filter cup made of transparent plastic, filter mesh 100 microns, pressure reducing valve factory set at 400 kPa (4 bar), for water up to max. 30°C.

JRG CleanLine Combi must be protected from UV radiation and aggressive environments/influences.

JRG Code	GF Code	DN	d1	d2	d3	h1	h2	l1	l2	l3		kg
1370.025	350690932	25	G 1¼	Rp ¼	99	221	110	100	125	60	6	3.180
1370.032	350690933	32	G 1½	Rp ¼	99	224	120	120	125	60	6	3.530



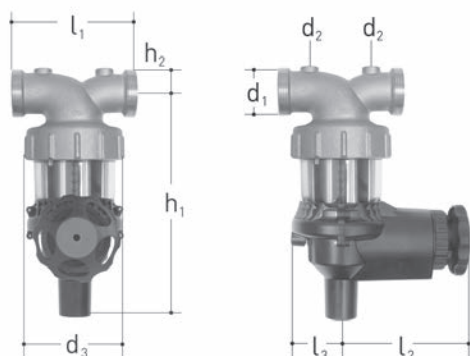
JRG CleanLine Combi with automatic backwash unit

Combined pressure reducing valve with backwashable fine filter, PN 16.

Male threaded connections BR 1 according to EN ISO 228-1, without unions, with automatic backwash unit (100-240 V AC), threaded connection for pressure gauge valve closed with plug, gunmetal housing, plastic cover top; slide, seat and filter insert made of chrome nickel steel, EPDM valve seals and membrane, filter cup made of transparent plastic, filter mesh 100 µm, pressure reducing valve factory set at 400 kPa (4 bar), for water up to max. 30°C. JRG CleanLine Combi must be protected from UV radiation and aggressive environments/influences.

JRG Code	GF Code	DN	d1	d2	d3	h1	h2	l1	l2	l3		kg
1371.025	350690840	25	G 1¼	Rp ¼	99	221	110	100	154	60	6	3.480
1371.032	350690841	32	G 1½	Rp ¼	99	224	120	120	154	60	6	3.830

JRG CleanLine



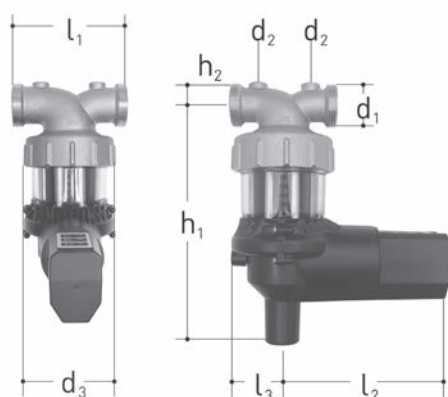
JRG CleanLine Filter

Backwashable fine filter, PN 16.

Male threaded connections BR 1 according to EN ISO 228-1, without unions, threaded connection for pressure gauge valve (primary/secondary) closed with plug, gunmetal housing, filter insert made of chrome nickel steel, EPDM valve seals, filter cup made of transparent plastic, filter mesh 100 microns, for water up to max. 30°C.

JRG CleanLine Filter must be protected from UV radiation and aggressive environments/influences.

JRG Code	GF Code	DN	d1	d2	d3	h1	h2	l1	l2	l3	kg
1870.025	350690969	25	G 1¼	Rp ¼	99	221	21	100	125	60	2.340
1870.032	350690971	32	G 1½	Rp ¼	99	224	24	120	125	60	2.480



JRG CleanLine Filter with automatic backwash unit

Backwashable fine filter, PN 16.

Male threaded connections BR 1 according to EN ISO 228-1, without unions, without unions, with automatic backwash unit (100-240 V AC), threaded connection for pressure gauge valve (primary/secondary) closed with plug, gunmetal housing, filter insert made of chrome nickel steel, EPDM valve seals, filter cup made of transparent plastic, filter mesh 100 µm, for water up to max. 30°C.

JRG CleanLine Filter must be protected from UV radiation and aggressive environments/influences.

JRG Code	GF Code	DN	d1	d2	d3	h1	h2	l1	l2	l3	kg
1871.025	350690842	25	G 1¼	Rp ¼	99	221	21	100	154	60	2.640
1871.032	350690843	32	G 1½	Rp ¼	99	224	24	120	154	60	2.780



Back wash unit to JRG CleanLine

Back wash unit to JRG CleanLine Combi 1370/1371 and JRG CleanLine Filters 1870/1871, 100-240 V AC, cable length 1.8 m, with integrated power reserve.

JRG Code	GF Code	h	l1	l2	l3	⊛	kg
8171.300	350690910	78	154	49	99	T15	0.670

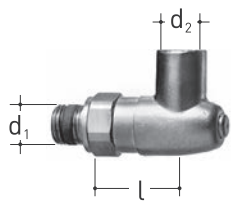
Manometer/Manometer valve accessories see page 8.

Unions see pages 9 to 11.

Please state the JRG Code when placing your order.

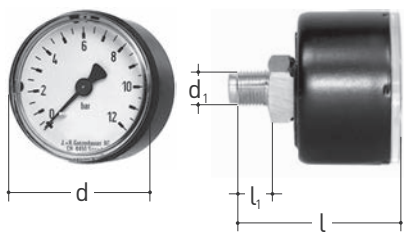
Accessoires

Type	JRG Code	Size	Pressure	Manometer valve	Manometer
	1370/1371	DN 25 (1") DN 32 (1¼")	0-12 bar (0-1'200 kPa)	8102.010	
	1870/1871	DN 25 (1") DN 32 (1¼")	0-12 bar (0-1'200 kPa)		8107.080 8107.081



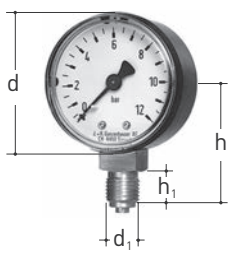
Manometer valve, PN 1600 kPa (16 bar)
made of brass, with push button, for water and air up to 100°C

JRG Code	GF Code	GN	d1	d2	l	kg
8102.010	350690969	¼	R ¼	Rp ¼	30	0.120



Manometer
with direct connection, for water and air up to 60°C

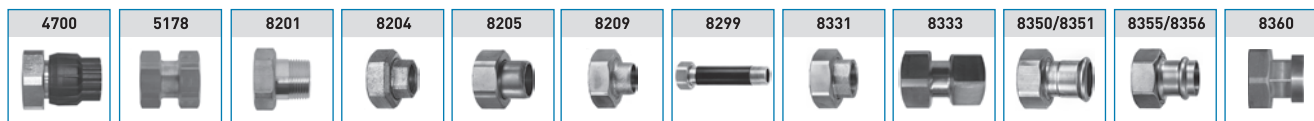
JRG Code	GF Code	GN	d	d1	l	l1	bar (kPa)	kg
8106.080	350342601	¼	50	R ¼	48	12	0-12 (0-1200)	0.120



Manometer
for water and air up to 60°C

JRG Code	GF Code	GN	d	d1	h	h1	bar (kPa)	kg
8107.080	350678901	¼	40	R ¼	38	12	0-12 (0-1200)	0.075
8107.081	350110601	¼	50	R ¼	44	12	0-12 (0-1200)	0.120

Unions



Adaptor piece	JRG Code	GF Code	DN 25	JRG Code	GF Code	DN 32
Union with male thread	8201.400	350331901	1"	8201.402 8201.480	351101500 350332001	1" 1¼"
Soldering union	8209.022	350484201	22	8209.122 8209.028 8205.035	355630901 350484301 350271401	22 28 35
Union with male thread	8204.320 8299.400 8331.320 8333.400	350485701 355583801 350253301 351061425	¾" 1" ¾" 1"	8204.400 8299.480 8331.322 8331.400 8333.480	350485801 355584001 355630801 350253401 351061435	1" 1¼" ¾" 1" 1¼"
Socket connection BR2/BR1	8360.025	351061423		8360.032	351061433	
Socket connection BR1	5178.400	350895068		5178.480	350895168	

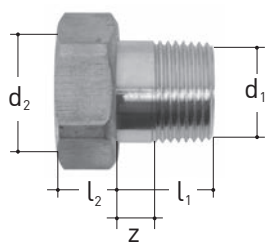
Adaptor piece on plastic	JRG Code	GF Code	DN 25	JRG Code	GF Code	DN 32
JRG Sanipex MT	4700.120 4700.122 4700.124 4700.126	351616996 351620994 351626995 351632995	16 20 26 32	4700.128 4700.130 4700.132	351626996 351632996 351640995	26 32 40
iFIT	762.101.097		25/32	762.101.098		25/32
INSTAFLEX HWS	761.069.374 761.069.377 761.069.378		25 32 40	761.069.376 761.069.379		32 40

Union with press-socket	JRG Code	GF Code	DN 25	JRG Code	GF Code	DN 32
Geberit Mapress	8351.018 8351.022 8350.028	355600407 355600402 355600203	18 22 28	8351.122 8351.028 8350.035	355600408 355600403 355600204	22 28 35
Nussbaum Optipress/ Viega Sanpress	8356.018 8356.022 8355.028	355600808 355600802 355600604	18 22 28	8356.122 8356.028 8355.035	355600807 355600803 355600605	22 28 35

Gaskets AFM 34 and profiled gaskets of EPDM cannot be oiled neither be greased.

Please state the JRG Code when placing your order.

Unions

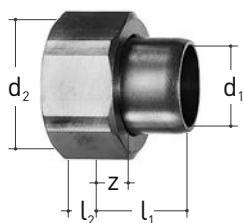


Union with male thread

with male thread, brass gasket*

* Gaskets AFM 34 cannot be oiled neither be greased.

JRG Code	GF Code	DN	d1	d2	l1	l2	z	kg
8201.400	350331901	25	R 1	G 1¼	33.5	8	15	0.215
8201.480	350332001	32	R 1¼	G 1½	38.0	9	18	0.320



Soldering union

brass/gunmetal with gasket*

* Gaskets AFM 34 cannot be oiled neither be greased.

JRG Code	GF Code	DN	d1	d2	l1	l2	z	kg
8205.028	350197301	25	28	G 1¼	28.5	8	8.5	0.250
8205.035	350271401	32	35	G 1½	33.5	9	8.5	0.330

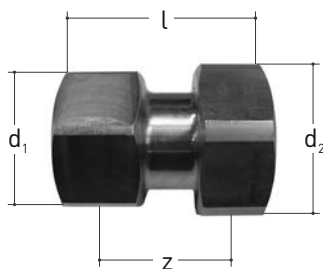


Union with male thread

brass, with extended male thread for adjustment when replacing pressure reducing valves of different lengths, with gasket*

* Gaskets AFM 34 cannot be oiled neither be greased.

JRG Code	GF Code	GN	DN	d1	d2	l1	l2	z	kg
8299.400	355583801	1	25	R 1	G 1¼	138	8	18	0.500
8299.480	355584001	1¼	32	R 1¼	G 1½	165	9	19	0.820



Union, BR 1 with female thread

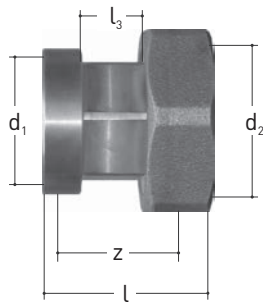
gunmetal, with female thread for valves with male thread according to ISO 228-1 and gasket*

* Gaskets AFM 34 cannot be oiled neither be greased.

JRG Code	GF Code	DN	d1	d2	l	z	kg
8333.480	351061425	32	Rp 1¼	G 1½	64.5	34.1	0.430
8333.560	351061435	40	Rp 1½	G 1¾	68.0	36.6	0.500

Please state the JRG Code when placing your order.

Unions

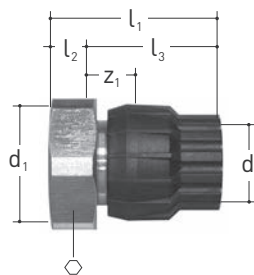


Sleeve connection, BR 2 on BR 1

to produce combinations, valves with male thread according EN ISO 228-1, made of gunmetal, with female thread and loose nut, and gasket*

* Gaskets AFM 34 cannot be oiled neither be greased.

JRG Code	GF Code	DN	d1	d2	l	l3	z	kg
8360.025	351061423	25	G 1¼	G 1½	61	22	44	0.452
8360.032	351061433	32	G 1½	G 2	65	22	47	0.669

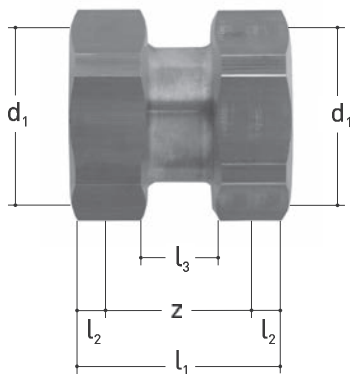


Adapter to valves

made of gunmetal, with female thread and gasket*, plastic cone grip union MT for JRG Sanipex d16/d20 and JRG Sanipex MT pipes

* Gaskets AFM 34 cannot be oiled neither be greased.

JRG Code	GF Code	GN	DN	d	d1	l1	l2	l3	z1	⊕	kg
4700.126	351632995	1¼	25	32	G 1¼	69	8	58	20	46	0.195
4700.132	351640995	1½	32	40	G 1½	80	9	69	24	55	0.325



Sleeve connection

with internal thread BR 1 according to EN ISO 228-1, gunmetal, with EPDM gasket*

* EPDM profile gaskets must not be greased or oiled.

JRG Code	GF Code	DN	d1	l1	l2	l3	z1	kg
5178.400	350895068	25	G 1¼	51	8	15	35	0.288
5178.480	350895168	32	G 1½	55	9	16	37	0.438



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