

JRG Valves

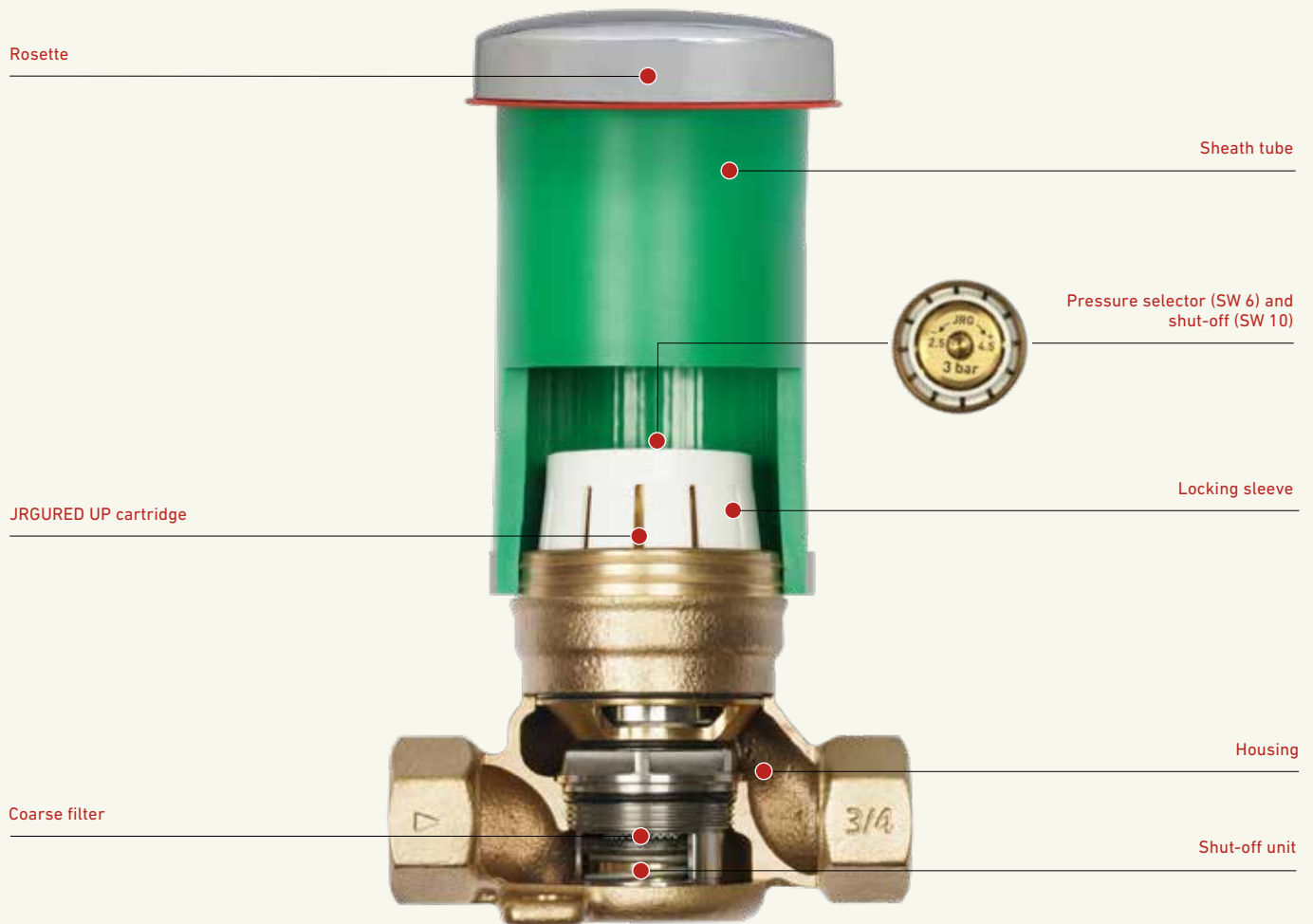
JRGURED UP

Pressure reducer $\frac{3}{4}$ "
Technical Documentation



JRGURED UP Pressure reducer

Compact and easy maintenance



The JRGURED UP pressure reducer is a compact valve for drinking water installations, consisting of maintenance shut-off, coarse filter and pressure reducer. The coarse filter integrated into the JRGURED UP before the pressure reducer traps particulate matter greater than 1'000 µm. The valve should be annually serviced and the coarse filter cleaned.

The compact JRGURED UP pressure reducer is meant to be installed in wall-hung elements, which facilitates direct mounting onto mounting rails (such as JRG Code 5458.000 fitting plates for GIS profile and JRG Code 5459.000 mounting plate for Duofix wash basin element).

The sophisticated maintenance opening was designed following aesthetic guidelines.

The JRGURED UP pressure reducer is designed for a nominal pressure of 1'600 kPa (16 bar) and is factory set at 300 kPa (3 bar). The pressure settings ranging from 250 to 450 kPa (2.5-4.5 bar) can easily be adjusted on site by a qualified plumber. The valve is suitable for temperatures up to 70°C, respectively up to 90°C for short periods during thermal disinfection.

Approved by SVGW

Mounting Position

The JRGURED UP pressure reducer works in any position. Install the JRGURED UP pressure reducer free of stress so that the maintenance opening can easily be accessed.

Installation Instructions

When installing the JRGURED UP pressure reducer, local guidelines, regulations and standards must be observed.

Allen key size (SW):

Maintenance shut-off	10 mm
Pressure change	6 mm

A 360-degree turn of the key corresponds to a change in pressure of about 30 kPa (0.3 bar).

Area of Application

The JRGURED UP pressure reducer is approved for the following parameters:

JRG Code	PN	p_{sek}	Factory setting	t_{max}^*
1380.320	1'600 kPa (16 bar)	250-450 kPa (2.5-4.5 bar)	300 kPa (3 bar)	70°C

* Temperatures up to 90°C permissible for short periods during thermal disinfection.

+ Benefits

- Ultra-compact design
- Very small and sophisticated maintenance opening
- Round maintenance opening similar to the one of UP straight valves (same design of rosette)
- Installation depth for dry construction elements, optimized for Duofix / GIS

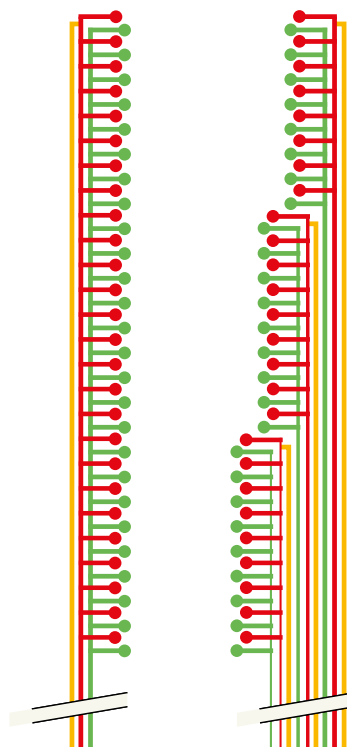
Comparison example JRGURED UP / conventional

System with JRGURED UP installed

Pressure stage 1

Pressure reduced by booster station before each floor distributor.

The JRGURED UP provides for smaller riser shafts and faster installation of the risers.



Conventional system

Pressure stage 3

Pressure not reduced by booster station.

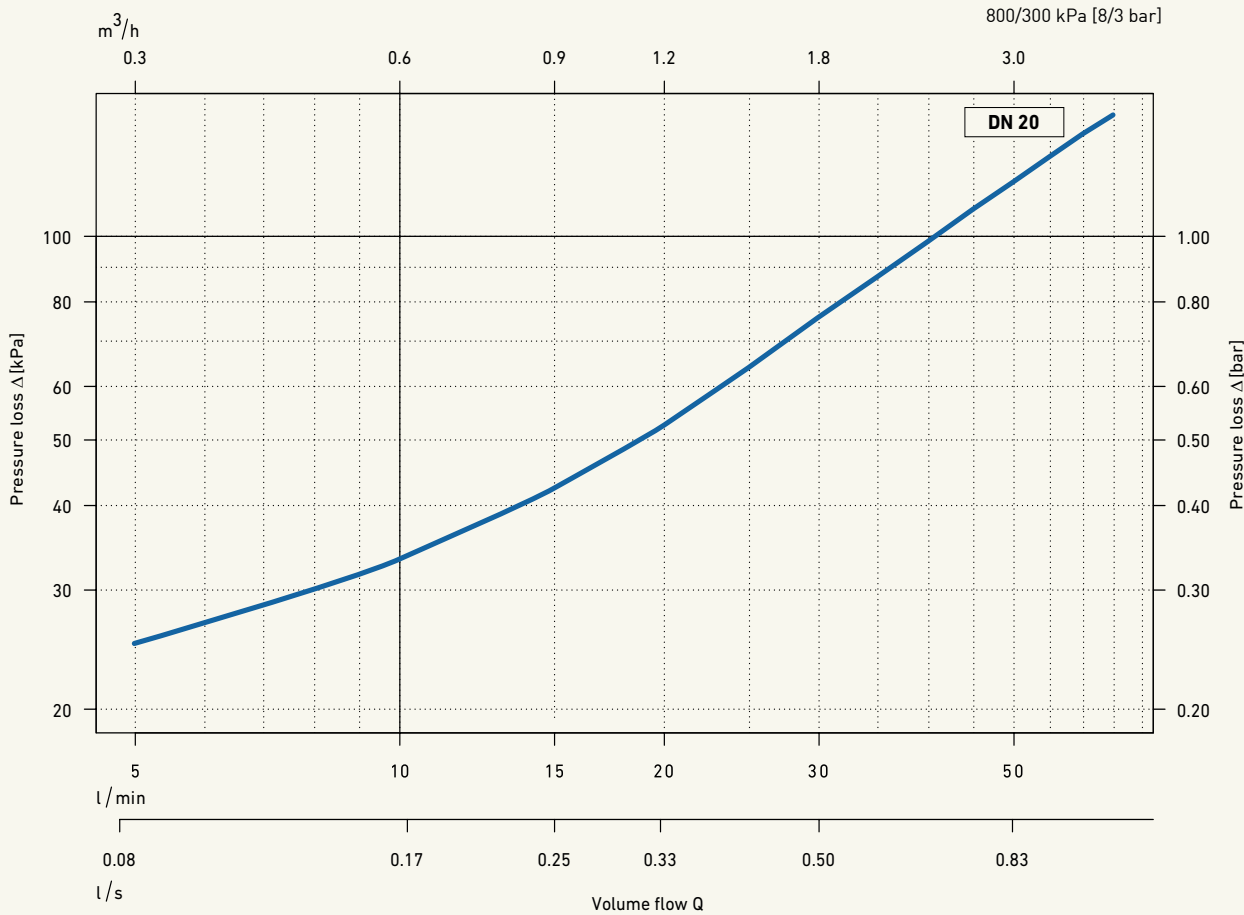
Pressure stage 2

Pressure reduced by booster station.

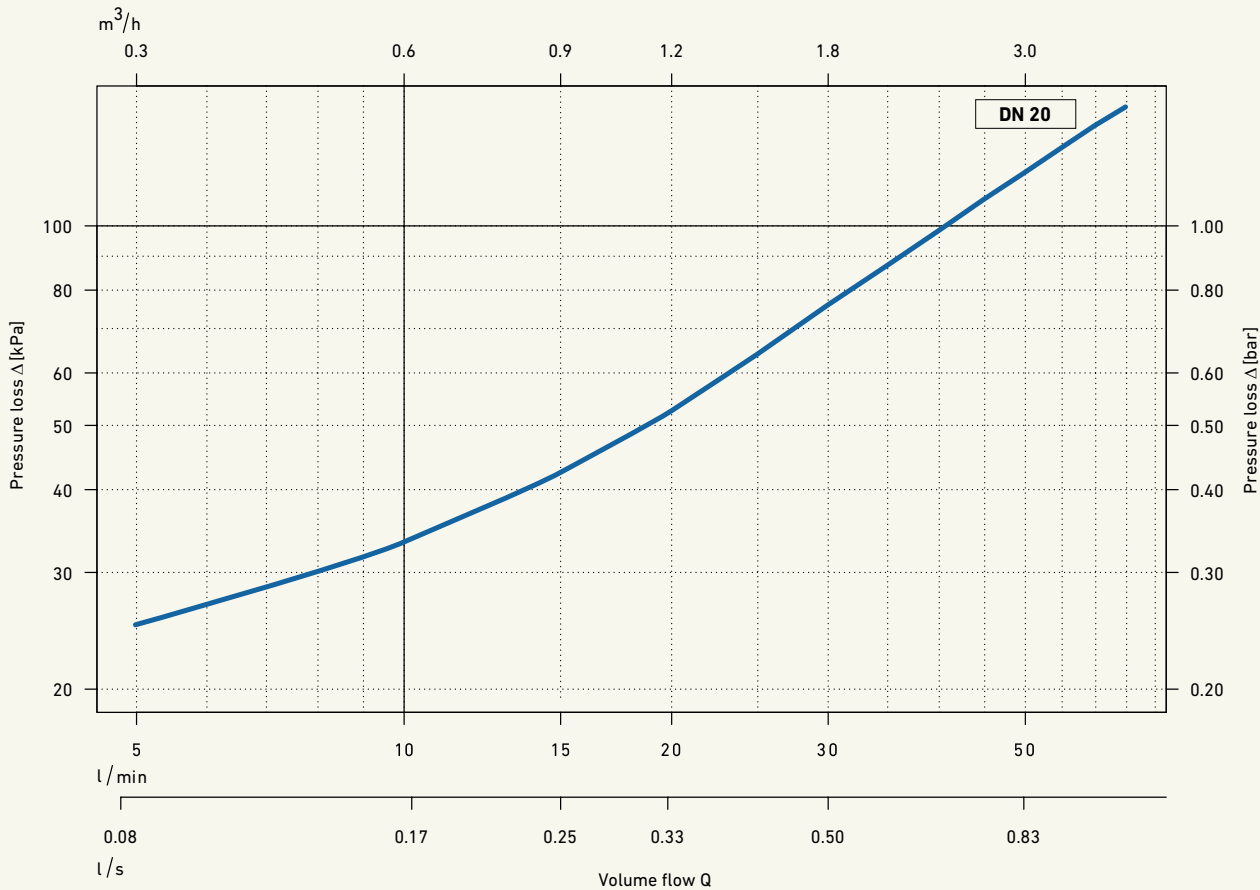
Pressure stage 1

Pressure from mains reduced if necessary.

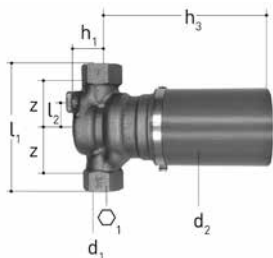
Nomogram JRGURED UP pressure reducer DN20 with cartridge installed



Nomogram JRGURED UP pressure reducer DN20 with by-pass plug



JRGURED UP Pressure reducer



Pre-installation set JRGURED UP DN 20, PN 16

With female thread, body made of gunmetal, stainless steel seat, EPDM valve seal, plastic sheath tube.

For water up to 70°C (short-term 90°C).

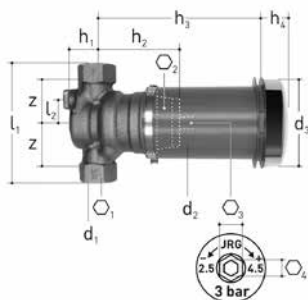
Rear mounting set for flange see Item No. 5929.001

JRGURED UP cartridge see Item No. 1381.320.

JRGURED UP rosette see Item No. 1383.320.

GN	DN	JRG	GF	Weight
(inch)	(mm)	Code	Code	(kg)
3/4	20	1380.001	350 739 016	0.980

GN	DN	d1 Rp	d2	h1	h3	l1	l2	z	⊘
(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	
3/4	20	3/4	66	22	64 - 154	110	22	41	32



JRGURED UP pressure reducer DN 20, PN 16 - 3 bar

With female thread, body made of gunmetal, stainless steel gate and seat, EPDM membrane and valve seal, strainer made of stainless steel 1'000 µm, plastic sheath tube, rosette made of chrome-plated plastic.

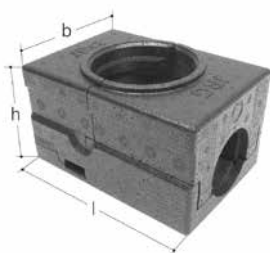
For water up to 70°C (short-term 90°C).

Factory setting at 300 kPa (3 bar), adjustment range 250-450 kPa (2.5-4.5 bar).

Rear mounting set for flange see Item No. 5929.001

GN	DN	JRG	GF	Weight
(inch)	(mm)	Code	Code	(kg)
3/4	20	1380.320	350 739 001	1.480

GN	DN	d1 Rp	d2	d3	h1	h2	h3	h4	l1	l2	z	⊘1	⊘2	⊘3	⊘4
(inch)	(mm)	(inch)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
3/4	20	3/4	66	80	22	78	64 - 154	23	110	22	41	32	36	10	6



Insulation box for JRGURED UP 1380

Made of EPP, thermal conductivity 0.047 W/mK

l	b	h	JRG	GF	Weight
(mm)	(mm)	(mm)	Code	Code	(kg)
120	82	70	1388.320	350 739 095	0.032

Accessories and spare parts



JRGURED UP cartridge DN 20, PN 16 - 3 bar

Suitable for JRGURED UP 1380.320
 Made of gunmetal, stainless steel gate and seat, EPDM membrane and valve seal, strainer made of stainless steel 1'000 µm, plastic locking sleeve.
 For water up to 70°C (short-term 90°C).
 Factory setting at 300 kPa (3 bar), adjustment range 250-450 kPa (2.5-4.5 bar).

GN (inch)	DN (mm)	JRG Code	GF Code	Weight (kg)	d1 (mm)	d2 (mm)	h1 (mm)	○1	○2	○3
¾	20	1381.320	350 739 084	0.560	M52 x 1.5 L	29	83	36	10	6



JRGURED UP Shut-off Unit DN 20

Suitable for JRGURED UP 1380.320
 Made of stainless steel, EPDM valve seal.
 For water up to 70°C (short-term 90°C).

GN (inch)	DN (mm)	JRG Code	GF Code	Weight (kg)	d1 (mm)	h1 (mm)	○1
¾	20	1382.320	350 739 081	0.093	M36 x 1.5	33	36



JRGURED UP Rosette

Suitable for JRGURED UP 1380.320, made of chrome-plated plastic, media markers blue/red.

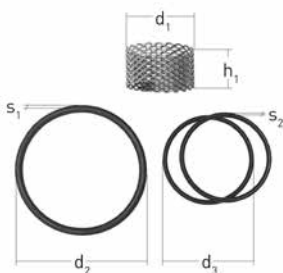
GN (inch)	DN (mm)	JRG Code	GF Code	Weight (kg)	d1 (mm)	d2 (mm)	h1 (mm)
¾	20	1383.320	350 739 082	0.045	80	83	22



JRGURED UP By-pass Plug

Suitable for JRGURED UP 1380.320, made of plastic, plastic locking sleeve. For water up to 70°C (short-term 90°C).

GN (inch)	DN (mm)	JRG Code	GF Code	Weight (kg)	d1 (mm)	h1 (mm)	h2 (mm)	○1
¾	20	1384.320	350 739 080	0.065	M52 x 1.5 L	68	83	27



JRGURED UP Spare Part Set

Suitable for JRGURED UP cartridge 1381.320, consisting of coarse filter Inox 1'000 µm, EPDM O-rings.

GN (inch)	DN (mm)	JRG Code	GF Code	d1 (mm)	d2 (mm)	S1 (mm)	d3 (mm)	S2 (mm)	d5 (mm)	h1 (mm)
¾	20	1385.320	350 739 083	20	45.52	2.62	25.12	1.68	1.68	12

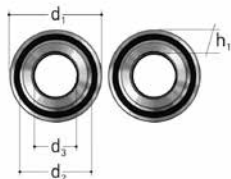
Accessories and spare parts



JRGURED UP Locking Sleeve

Suitable for JRGURED UP 1380.320, made of plastic.

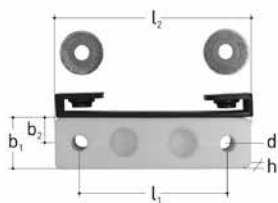
GN (inch)	DN (mm)	JRG Code	GF Code	Weight (kg)	d1 (mm)	h1 (mm)	d2 (mm)
¾	20	1386.320	350 739 086	0.015	55	44	27



JRGURED UP Test Adapter Set

Suitable for JRGURED UP 1380.320, made of gunmetal, two-piece set.

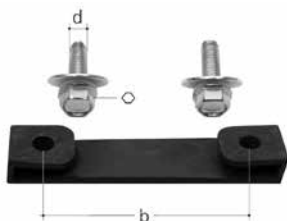
GN (inch)	DN (mm)	JRG Code	GF Code	Weight (kg)	d1 (mm)	d2 (mm)	d3 (mm)	h1 (mm)
¾	20	1387.320	350 739 088	0.090	40	28	19	10



Spacer

Suitable for JRGURED UP 1380.320, concealed straight valves, concealed shut-off valves and JRG LegioStop shut-off units, made of plastic.

GN (inch)	DN (mm)	JRG Code	GF Code	Weight (kg)	d (mm)	h (mm)	l1 (mm)	l2 (mm)	b1 (mm)	b2 (mm)
¾	20	1389.320	350 739 097	0.055	6	20	60	80	20	10



Fixing set for rear

For the mounting of concealed valves with fixing flange consisting of: Noise absorbing plate 60° Shore A, Self tapping fixing screws, washer and dished spring suitable to: 1380.320, 5900, 5909, 5910, 5916, 5922, 5924, 5925, 5458.045, 5458.055

d (mm)	JRG Code	GF Code	Weight (kg)	b (mm)	⊙1
M6	5929.001	351 062 088	0.025	60	10



JRGURED UP Installation Tool

Suitable for JRGURED UP 1380.320, made of steel, including two test adapters made of gunmetal 1387.320.

GN (inch)	DN (mm)	JRG Code	GF Code	Weight (kg)	d1 (mm)	d2 (mm)	d3 (mm)	l1 (mm)	l2 (mm)	⊙1 (mm)
¾	20	8140.000	350 739 090	1.460	48	45	12	240	260	36

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