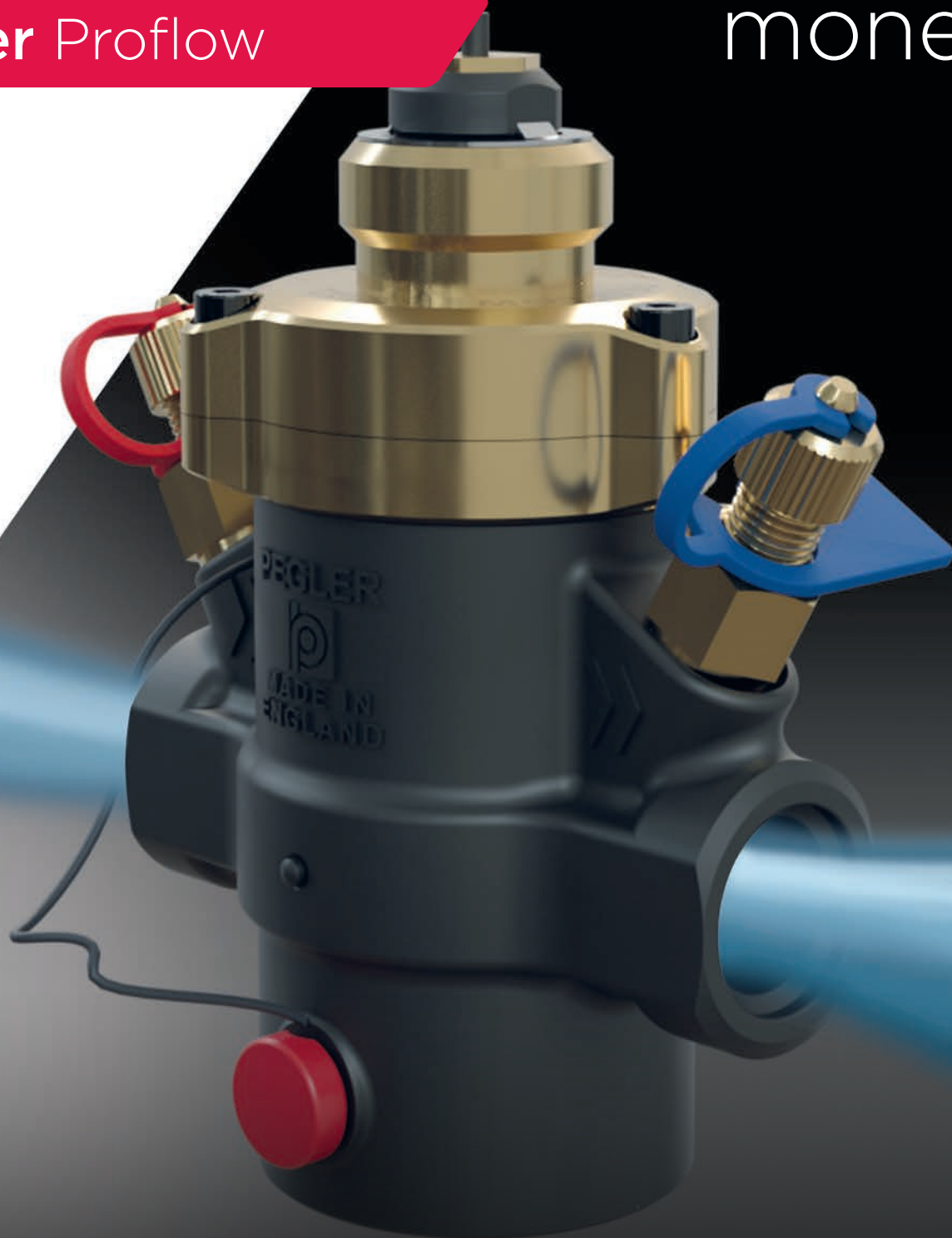


turning
time into
money

Pegler Proflow



don't just buy products, buy solutions.

Aalberts Integrated Piping Systems



pipng technology

connection

Aalberts Integrated Piping Systems develops and produces connectors, metal and plastic pipes, valves, and fastening technology for the distribution and control of liquids and gases. Our technologies enable customers to work quickly and reliably in a simple and efficient way.

integrated piping systems

These bespoke systems are applicable for key vertical markets such as residential, commercial, industrial and utility. Our complete range of integrated piping systems and fittings is always available through a wide range of various distribution channels. Furthermore, our own engineers are always developing our existing systems and services to the next level, as well as the design of completely new and innovative solutions.

This is how Aalberts Integrated Piping Systems enables its customers to make every project a success.

global footprint with a local presence

We are part of Aalberts, a globally operating technology group and currently active at 30 locations in 14 countries, offering the broadest and most advanced portfolio. At Aalberts Integrated Piping Systems, we combine an overall technical expertise, global knowledge exchange, and the continuous drive to innovate within our group, with our knowledge of local markets and involvement in our customers' business. We offer them

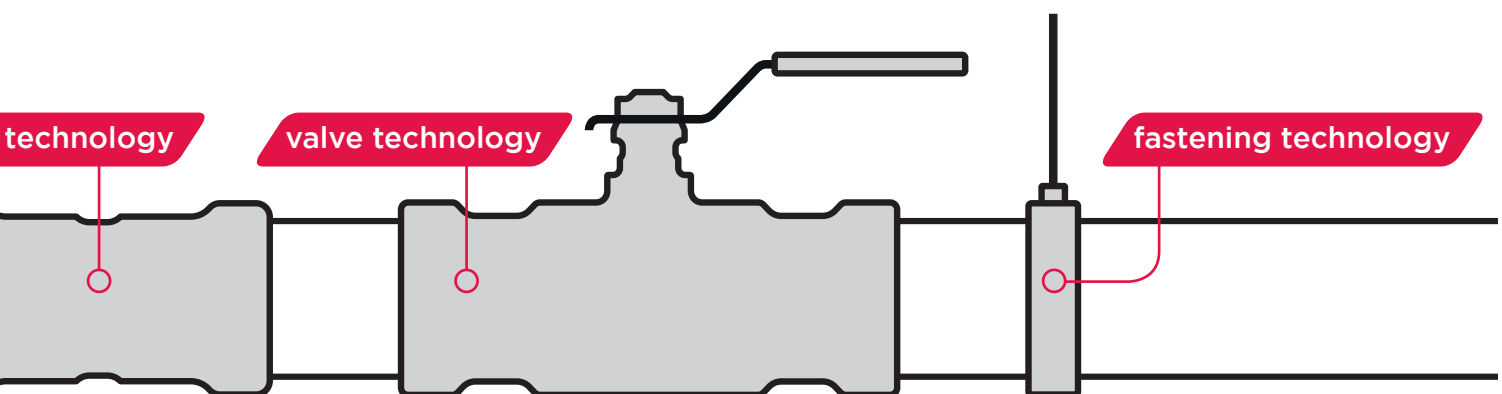
advice, Design Service and complete customised solutions from the design phase right through to delivery and aftercare, via our Aalberts Integrated Piping Systems Design Service®.

We take away all our customers worries and concerns and offer them a complete integrated piping solution, each and every time.

exceeding expectations

At Aalberts Integrated Piping Systems we not only invest in our customers, but also in our own employees. Because we realise that they are the heart of our company. With passion, teamwork, ownership and diversity, we have the ability to think 'out-of-the-box'. This means that we define answers on challenging market demands and invent a range of appropriate solutions. Our people are also constantly focused on achieving optimum performances and continuous innovation.

It is this dedication that enables us to exceed both ourselves and our customers' expectations.



our internationally strong brands and technologies

Aalberts Integrated Piping Systems does not simply focus on only one technology within the system, but applies different technologies for different applications. All these technologies employ strong brands and together they constitute what we call our integrated piping systems. Our systems are easy to specify, install and maintain.

- **valve technology.** Thanks to the internationally renowned brands Apollo and Pegler, Aalberts Integrated Piping Systems can offer the best valves for a wide range of market segments. Naturally these valves are high quality and distributed worldwide.

- **connection technology.** With the high-quality solutions from VSH, Aalberts Integrated Piping Systems is a market leader in connection technology. The wide range of solutions is suitable for numerous applications in residential, commercial and industrial buildings, general industrial usage, fire protection and shipbuilding.

- **piping technology.** Piping technology includes a complete range of carbon steel, stainless steel and plastic tubes in sizes ranging from 12 mm to 108 mm.

- **fastening technology.** Smart hangers for the optimal arrangement of the integrated piping system

Pegler

Pegler provides the best solutions for integrated piping systems. This term encompasses a range of product lines for connection technology and valve technology which, together with our design service, offer the ultimate solution for top-quality integrated piping systems.



material	carbon steel
suitable for	thick walled steel
connection	press / DW-profile
dimensions	1/2" - 2" (DN15 - DN50)



material	ductile iron / stainless steel
suitable for	thick walled steel / stainless steel / HDPE
connection	groove
dimensions	1/2" - 104" (DN15 - DN2600)

the strength of Pegler

- the perfect solution for every project
- smart, fast and efficient installation
- Aalberts Integrated Piping Systems Design Service
- valuable advice from the drawing board to delivery
- a very wide product range
- warranty plus
- all products are BIM now

The integrated piping systems stand out due to their high and consistent quality, and quick and simple installation and maintenance. Pegler offers the widest, most comprehensive range of reliable press, compression, groove and push systems – including fittings for thick-walled and thin-walled metal and plastic tubes.

Aalberts Integrated Piping Systems Design Service®

Pegler is a fully customer-focused sales and service organisation with experts who are committed to product development, service and customer support every single day. This means that from day one at the digital drawing board, you will receive professional advice on customised total solutions while being able to rely on optimum availability and reliable support both during and after delivery. Our engineers have access to all Aalberts Integrated Piping Systems products and can therefore always find the best solution which is fully customised to your needs.



VSH XPress



material	carbon steel / stainless steel / copper
suitable for	thin walled / carbon steel / stainless steel / copper
connection	press / M-profile
dimensions	12 – 108 mm (DN10 – DN100)

VSH MultiPress



material	PPSU / brass
suitable for	Multilayer tube
connection	press / U & TH profile
dimensions	14 – 63 mm (DN10 – DN50)

VSH Tectite



material	brass / stainless steel / copper
suitable for	thin walled stainless steel / copper / carbon steel / PEX, PB and Multilayer tube
connection	push
dimensions	10 – 54 mm (DN8 – DN50)

Pegler Valve Technology

Pegler is well known and respected as one of the leading manufacturers of advanced plumbing, heating and engineering products in the world. It's a reputation earned through a total dedication to quality, innovation and customer service that's been the hallmark of the company since it was established in the 1890's (originally trading as Pegler Ltd and Yorkshire Fittings Ltd).

Our success has been derived from a commitment to a philosophy based on quality, service, investment, competitiveness and innovation. Energy and water conservation is very much at the forefront of our product development.

Pegler's unique Integrated Piping System brings together valves, fitting and pipes in one complete pipe-work system, with an emphasis on delivering heat free jointing.

Integrated Piping System combines the best elements of modern connection and valve technology, with international quality approvals and cost effective solutions for every project.

As a business partner to some of the world's best known plumbing and heating suppliers, our unrivalled list of market leading product brands include Yorkshire integral solder ring fittings, Pegler Terrier radiator valves, VSH Tectite push-fit fittings, VSH PowerPress® products, VSH Shurjoint solutions, the VSH XPress press fit system, Pegler valves, Prestex general brassware, Endex end feed and Kuterlite compression fittings.

don't just buy products,
buy solutions.

The revolutionary new Pressure Independent Control Valve (PICV) from Pegler, is designed to eliminate existing PICV heating and cooling system issues, saving significant time and money.

Pegler Proflow PICV's are supplied in bypass configuration. Valves can be installed and flushed (forward and backward) at full bore prior to commissioning with the PICV mechanism safely out of the way.

Once the system is clean and ready to commission a **simple rotation** of the Pegler Proflow PICV head introduces the valve into the flow, and rotates the bypass out of the way.

easier operation by design

supplied in...

bypass mode



a simple rotation introduces...

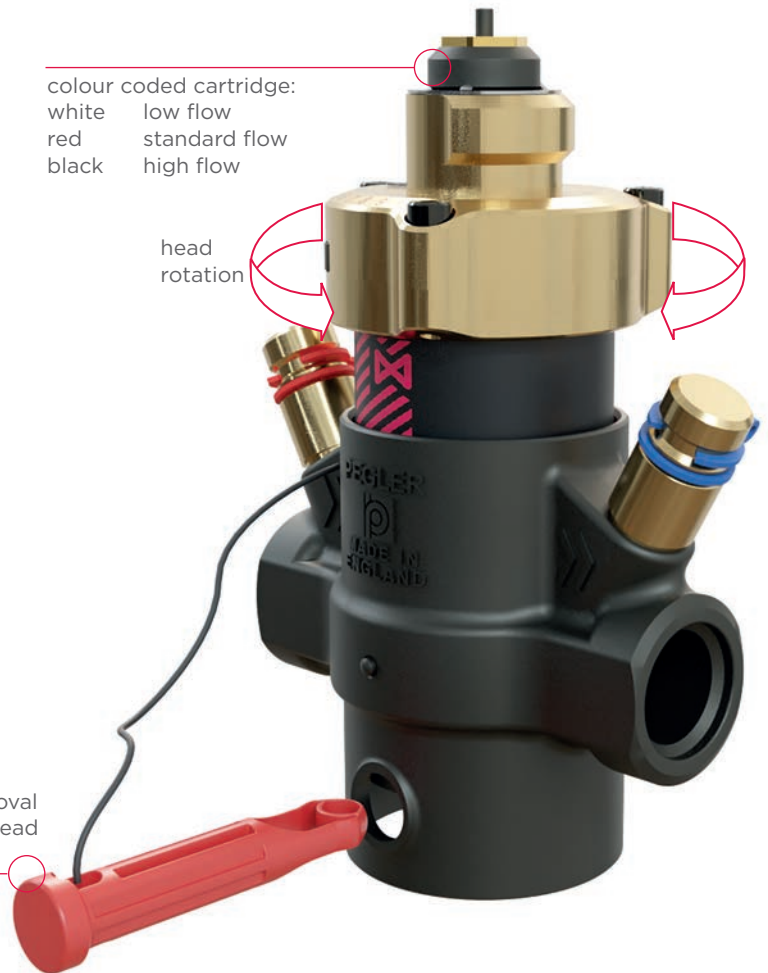
isolation mode



colour coded cartridge:
white low flow
red standard flow
black high flow

head
rotation

pin removal
allows head
rotation



- flushing bypass prevents debris contamination of cartridge prior to dynamic mode
- full bore flush and backflush for efficient system cleaning/flushing
- less time spent preparing valve for flushing

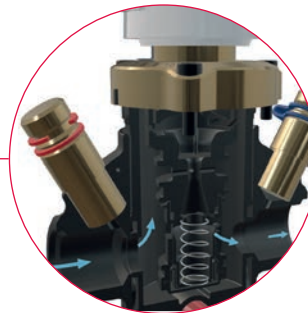
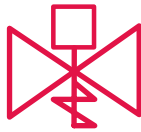
- can be used as an isolation valve, removing the requirement for inline ball valves
- ensures cartridge setting is retained

fast flush technology

no contamination issues

70% faster than traditional methods

fully closed and ready for...
dynamic mode



dynamic mode
water flow

- visible setting indication with actuator fitted
- ensures removal of debris within the product to support pressures of commissioning times
- minimises flow rate mixup

faster commissioning

key features - installer

- **less prone to issues and cartridge mix-up**
- **ensures bypass/flushing have been actioned to prevent future issues**
- **utilise as isolating valve** no need for ball valve inline
- **less time removing cartridges for flushing**
- **ensures removal of debris within product**
- **supports Water Treatment** to meet timescales and BSRIA guidelines

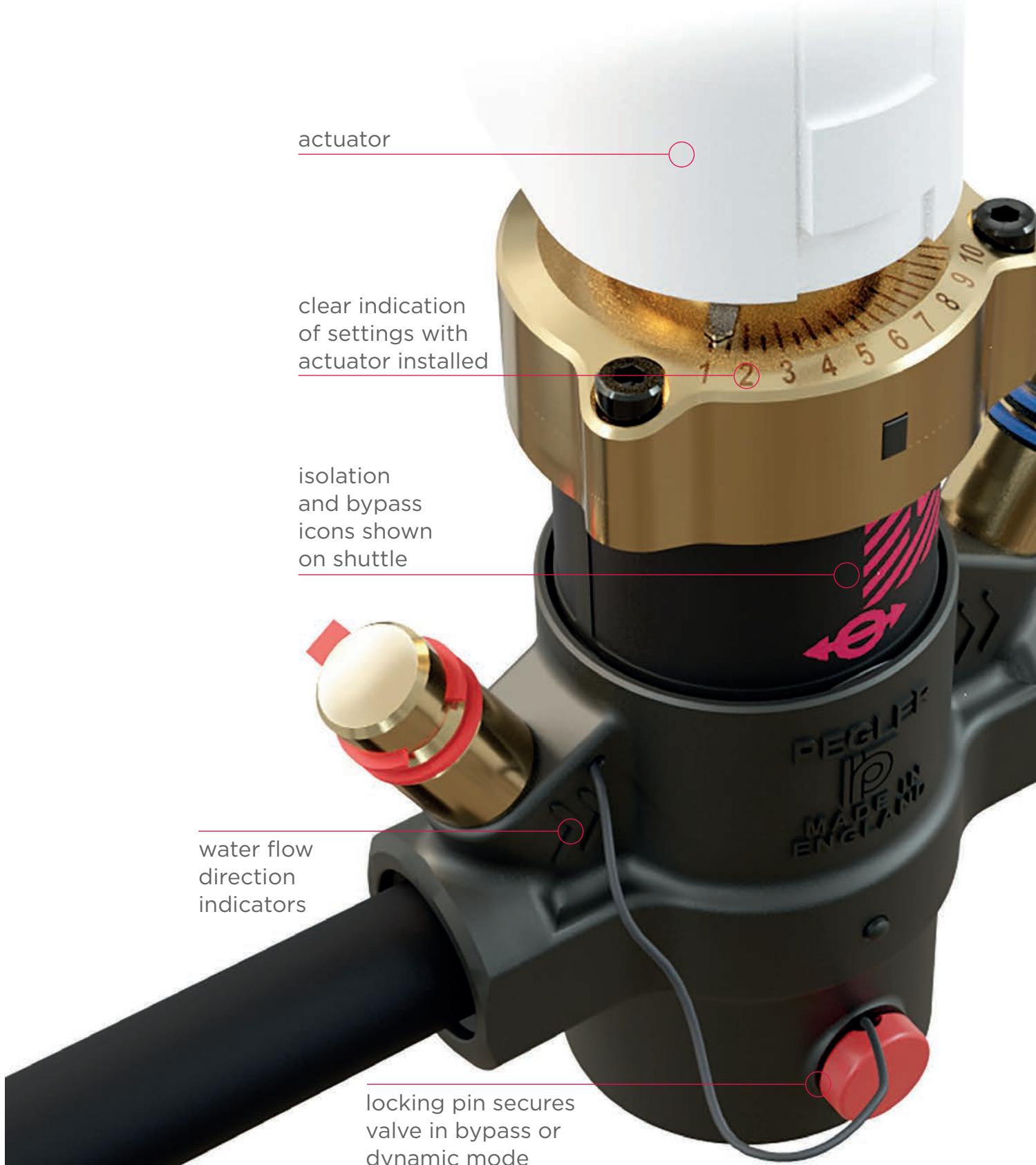
actuator

clear indication
of settings with
actuator installed

isolation
and bypass
icons shown
on shuttle

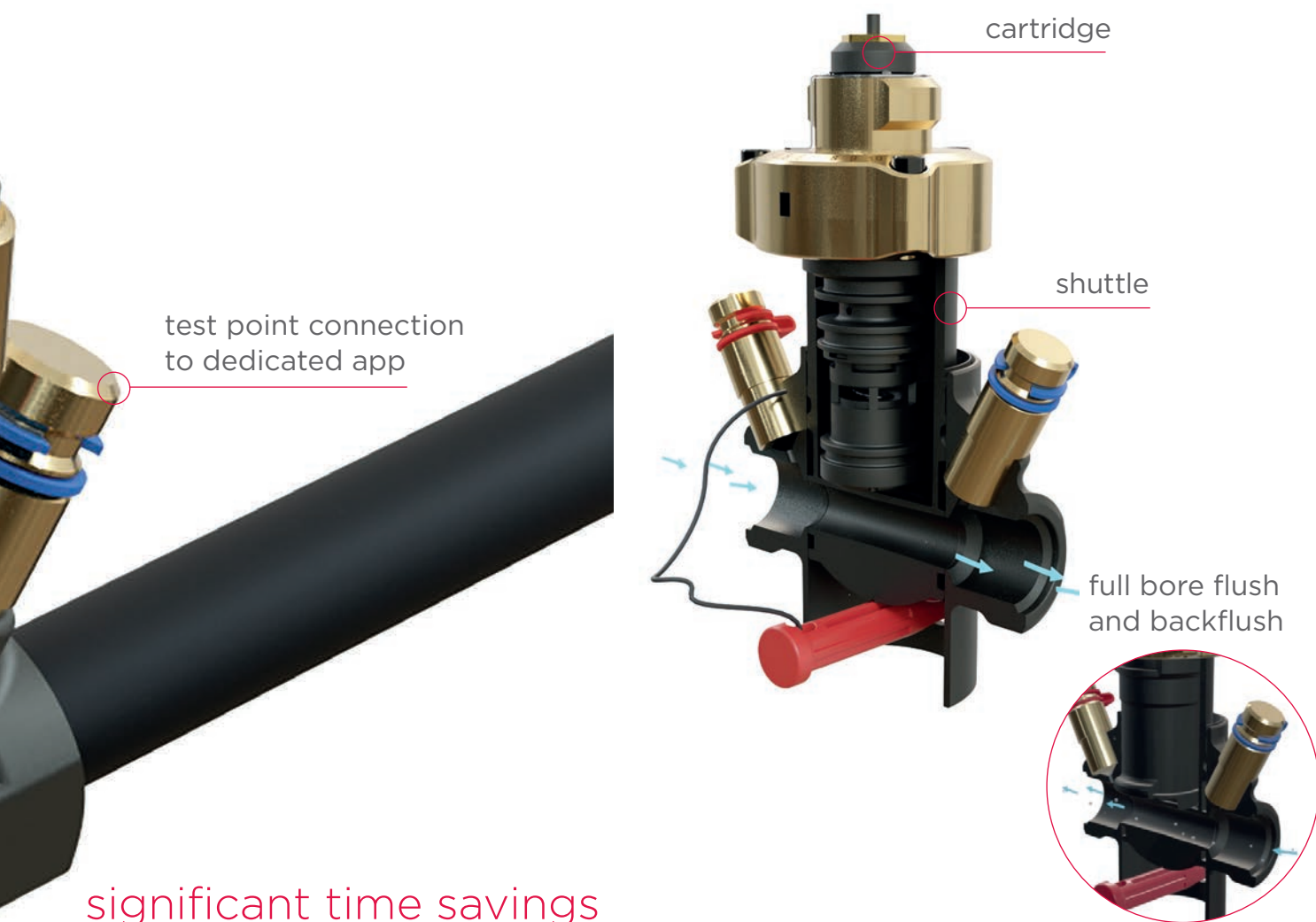
water flow
direction
indicators

locking pin secures
valve in bypass or
dynamic mode



key features - commissioning

- hot swap/inserts simple changeover
- minimise flow rate mix-up on site
- setting memory in isolation/bypass mode
- visible setting indication with actuator on
- supports pressure of commissioning timescales
- measures delta

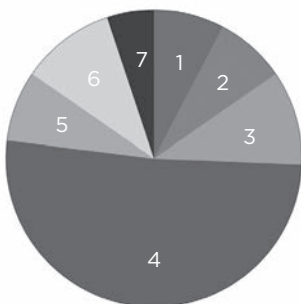


significant time savings

The functioning of the valve not only delivers a first-class dynamic balancing valve, but in addition the method of operation offers significant time and cost saving benefits, as illustrated below:

traditional

1. installation - 45 minutes
2. flush prep - 45 minutes
3. system flush - 1 hour
4. risk factor - 5 hours
5. re-insert cartridge - 45 minutes
6. commissioning - 1 hour
7. lagging - 30 minutes



fast flush technology

1. installation - 30 minutes
2. system flush - 1 hour
3. commissioning - 50 minutes
4. lagging - 30 minutes

time saving per unit

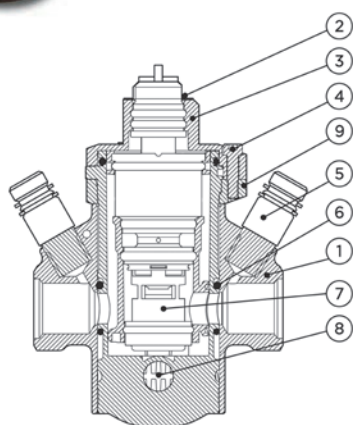
6 hours 55 minutes

time saving when installing 50 units

350 hours



1600 pressure independent control valve (PICV) (x2 female thread)



specification

- all sizes rated PN16
- DN15 to DN25 sizes
- DZR body
- full bore forward and backflush
- unique bypass "fast flush" technology
- removes risk of cartridge mix up
- built in isolation mode
- ISO 7-1Rc taper thread
- BS EN 10226

material specification

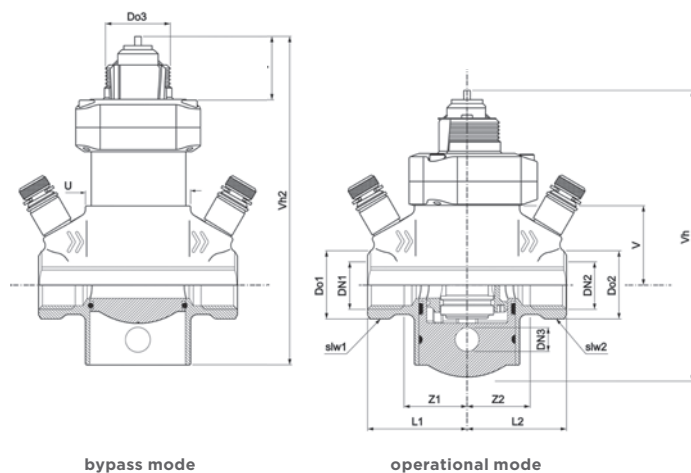
nr		material
1	Body	DR brass (CW511L)
2	Indicator	Stainless Steel (AISI 304)
3	Cap	DR Brass (CW511L)
4	Socket screw	Steel (AISI 304)
5	Binder point	Brass
6	"O" ring	EPDM
7	Cartridge	Polyphenylene Sulphide (PPS)
8	Locking peg	Polyoxymethylene (POM)
9	Clamp	DR Brass (CW511L)

test pressure (bar)

dimensions	shell (bar)	seat (bar)
DN15 to DN25	24.0	17.6

pressure equipment directive category

all sizes classified SEP



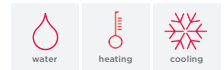
bypass mode

operational mode

	code	weight (kg)	kv	Do1/Do2	Do3	DN1/DN2	DN3	L1/L2	M	slw1/sl2	U	V	Vh	Vh2	Y	Z1/Z2
1/2" DN15 (LF)	16001	0.90	0.01-0.033	31.0	30.0	22.0	11.0	48.0	65.0	27.0	49.0	38.0	134.0	153.0	29.0	29.0
1/2" DN15 (SF)	16002	0.90	0.025-0.125	31.0	30.0	22.0	11.0	48.0	65.0	27.0	49.0	38.0	134.0	153.0	29.0	29.0
1/2" DN15 (HF)	16003	0.90	0.083-0.39	31.0	30.0	22.0	11.0	48.0	65.0	27.0	49.0	38.0	134.0	153.0	29.0	29.0
3/4" DN20 (SF)	16004	1.50	0.089-0.25	32.0	30.0	27.0	15.0	52.0	76.0	32.0	60.0	50.0	163.0	188.0	32.0	33.0
3/4" DN20 (HF)	16005	1.50	0.232-0.617	32.0	30.0	27.0	15.0	52.0	76.0	32.0	60.0	50.0	163.0	188.0	32.0	33.0
1" DN25 (SF)	16006	1.50	0.232-0.617	47.0	30.0	36.0	15.0	58.0	76.0	40.0	60.0	50.0	163.0	188.0	32.0	42.0

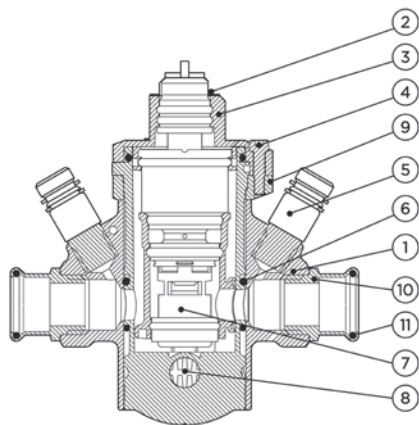
*Kv - flow rate in m³ per hour at a pressure drop of 1 bar.

PS1600 pressure independent control valve (PICV) (2x press)



specification

- all sizes rated PN16
- DN15 to DN25
- DZR body
- full bore forward and backflush
- unique bypass "fast flush" technology
- removes risk of cartridge mix up
- built in isolation mode
- VSH XPress ends for copper, carbon steel and stainless steel tube



material specification

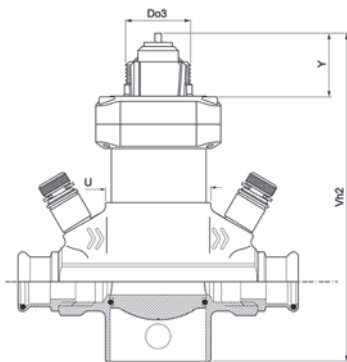
nr		material
1	Body	DR brass (CW511L)
2	Indicator	Stainless Steel (AISI 304)
3	Cap	DR Brass (CW511L)
4	Socket screw	Steel (AISI 304)
5	Binder point	Brass
6	"O" ring	EPDM
7	Cartridge	Polyphenylene Sulphide (PPS)
8	Locking peg	Polyoxymethylene (POM)
9	Clamp	DR Brass (CW511L)
10	Adaptor	DZR brass
11	"O" ring	EPDM

test pressure (bar)

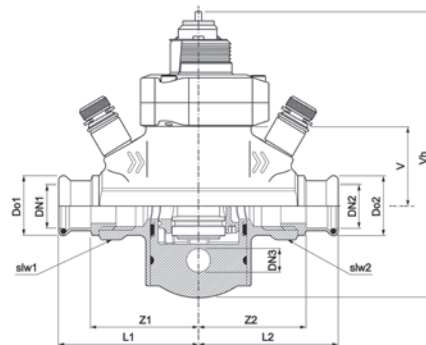
dimensions	shell (bar)	seat (bar)
DN15 to DN25	24.0	17.6

pressure equipment directive category

all sizes classified SEP



bypass mode



operational mode

	code	weight (kg)	kv	Do1/Do2	Do3	DN1/DN2	DN3	L1/L2	M	slw1/sl2	U	V	Vh	Vh2	Y	Z1/Z2
½" DN15 (LF)	16020	0.96	0.01-0.033	23.0	30.0	22.0	11.0	68.0	65.0	27.0	49.0	38.0	134.0	153.0	29.0	48.0
½" DN15 (SF)	16021	0.96	0.025-0.125	23.0	30.0	22.0	11.0	68.0	65.0	27.0	49.0	38.0	134.0	153.0	29.0	48.0
½" DN15 (HF)	16022	0.96	0.083-0.39	23.0	30.0	22.0	11.0	68.0	65.0	27.0	49.0	38.0	134.0	153.0	29.0	48.0
¾" DN20 (SF)	16023	1.64	0.089-0.25	32.0	30.0	27.0	15.0	76.0	76.0	32.0	60.0	50.0	163.0	188.0	32.0	55.0
¾" DN20 (HF)	16024	1.64	0.232-0.617	32.0	30.0	27.0	15.0	76.0	76.0	32.0	60.0	50.0	163.0	188.0	32.0	55.0
1" DN25 (SF)	16025	1.64	0.232-0.617	37.0	30.0	36.0	15.0	84.0	76.0	40.0	60.0	50.0	163.0	188.0	32.0	61.0

*Kv - flow rate in m³ per hour at a pressure drop of 1 bar.

PSU1600 pressure independent control valve (PICV) (press x press union)



specification

- all sizes rated PN16
- DN15 to DN25
- DZR body
- full bore forward and backflush
- unique bypass "fast flush" technology
- removes risk of cartridge mix up
- built in isolation mode
- VSH XPress union x VSH XPress ends for copper, carbon steel and stainless steel tube

material specification

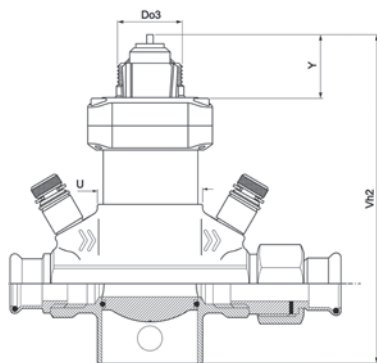
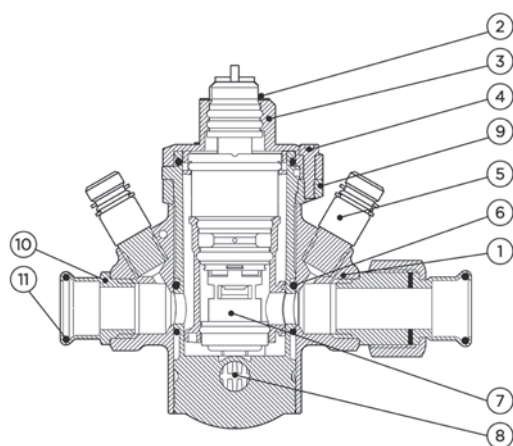
nr		material
1	Body	DR brass (CW511L)
2	Indicator	Stainless Steel (AISI 304)
3	Cap	DR Brass (CW511L)
4	Socket screw	Steel (AISI 304)
5	Binder point	Brass
6	"O" ring	EPDM
7	Cartridge	Polyphenylene Sulphide (PPS)
8	Locking peg	Polyoxymethylene (POM)
9	Clamp	DR Brass (CW511L)
10	Adaptor	DZR brass
11	"O" ring	EPDM

test pressure (bar)

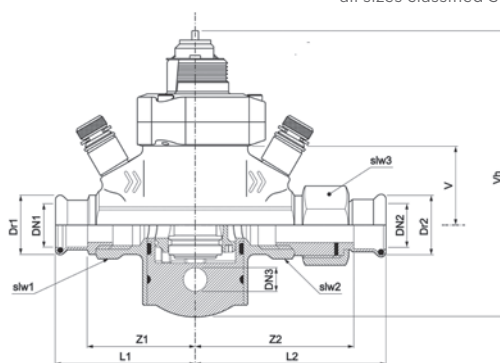
dimensions	shell (bar)	seat (bar)
DN15 to DN25	24.0	17.6

pressure equipment directive category

all sizes classified SEP



bypass mode

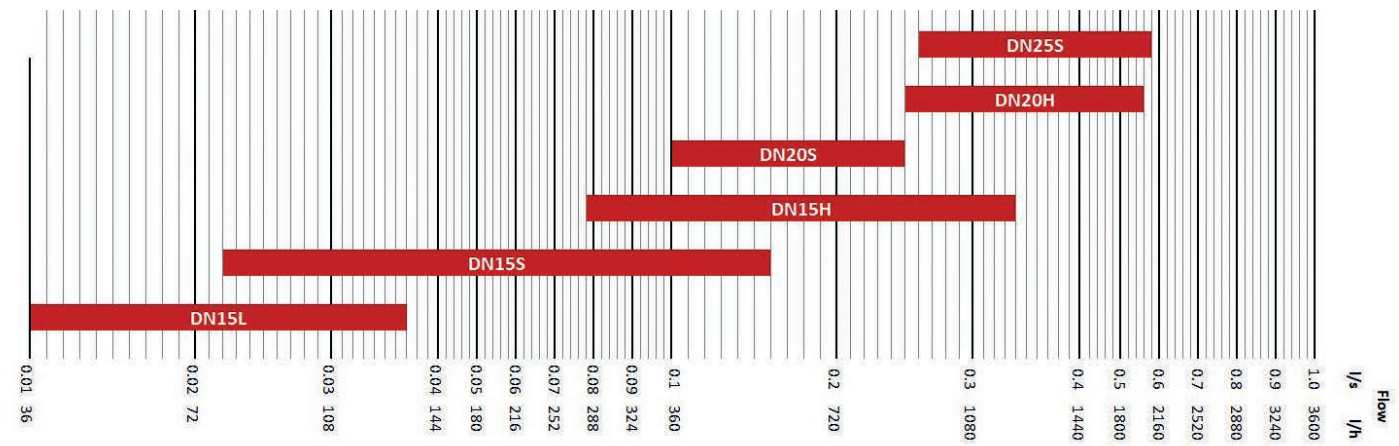


operational mode

	code	weight (kg)	kv	Dr1/Dr2	Do3	DN1/DN2	DN3	L1	L2	M	slw1/slw2	slw3	U	V	Vh	Vh2	Y	Z1	Z2
½" DN15 (LF)	16050	1.00	0.01-0.033	23.0	30.0	22.0	11.0	68.0	89.0	65.0	27.0	34.0	49.0	38.0	134.0	153.0	29.0	48.0	70.0
½" DN15 (SF)	16051	1.00	0.025-0.125	23.0	30.0	22.0	11.0	68.0	89.0	65.0	27.0	34.0	49.0	38.0	134.0	153.0	29.0	48.0	70.0
½" DN15 (HF)	16052	1.00	0.083-0.39	23.0	30.0	22.0	11.0	68.0	89.0	65.0	27.0	34.0	49.0	38.0	134.0	153.0	29.0	48.0	70.0
¾" DN20 (SF)	16053	1.68	0.089-0.25	32.0	30.0	27.0	15.0	75.0	105.0	76.0	32.0	40.0	60.0	50.0	163.0	188.0	32.0	55.0	84.0
¾" DN20 (HF)	16054	1.68	0.232-0.617	32.0	30.0	27.0	15.0	75.0	105.0	76.0	32.0	40.0	60.0	50.0	163.0	188.0	32.0	55.0	84.0
1" DN25 (SF)	16055	1.68	0.232-0.617	37.0	30.0	36.0	15.0	84.0	109.0	76.0	40.0	48.0	60.0	50.0	163.0	188.0	32.0	62.0	86.0

*Kv - flow rate in m³ per hour at a pressure drop of 1 bar.

flow range



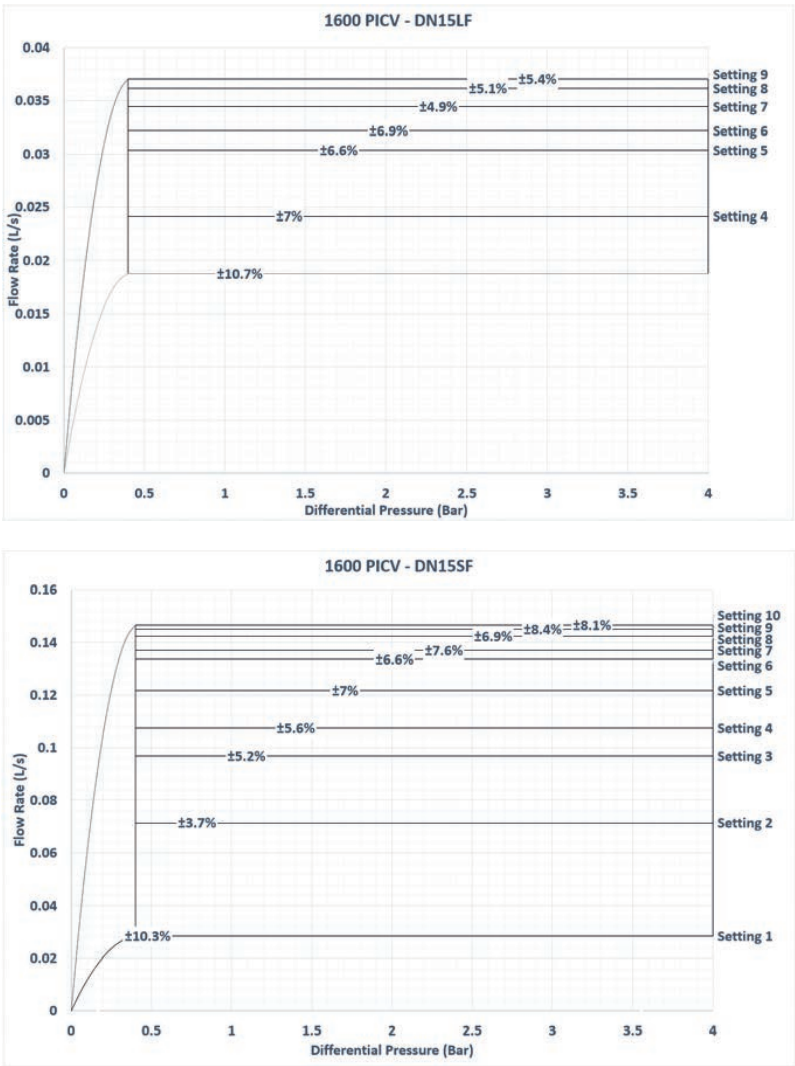
operating pressure

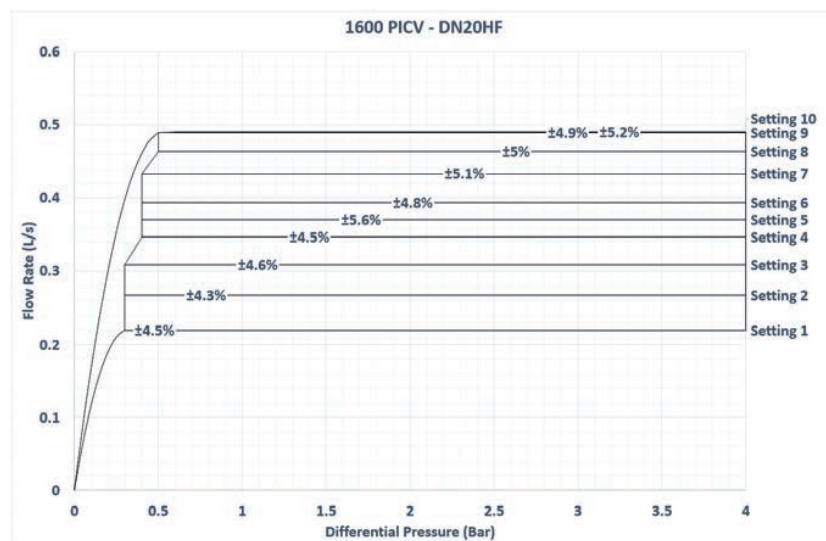
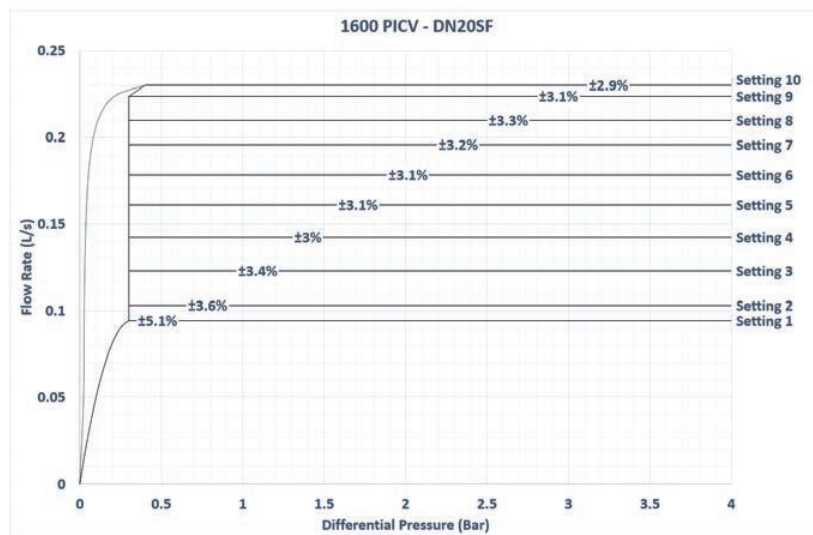
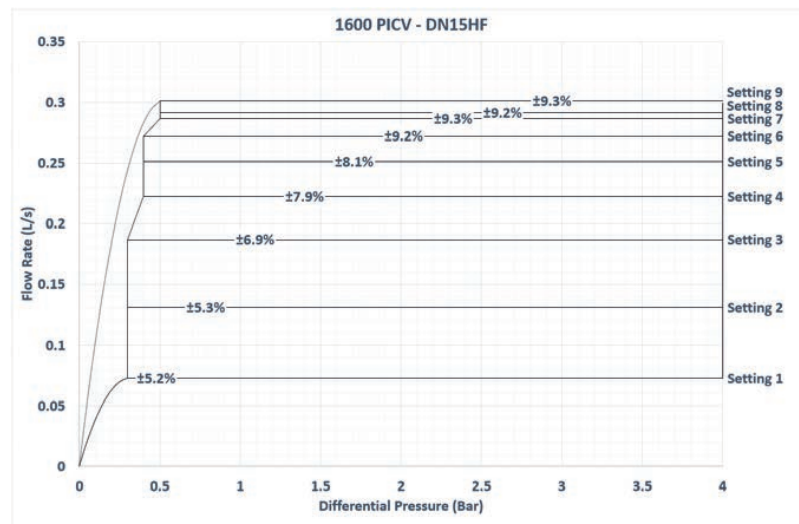
Pressure range (kPa)	DN15			DN20		DN25
	LF	SF	HF	SF	HF	
30- 400	± 8%	± 8%	± 7%	± 3%	± 5%	± 5%

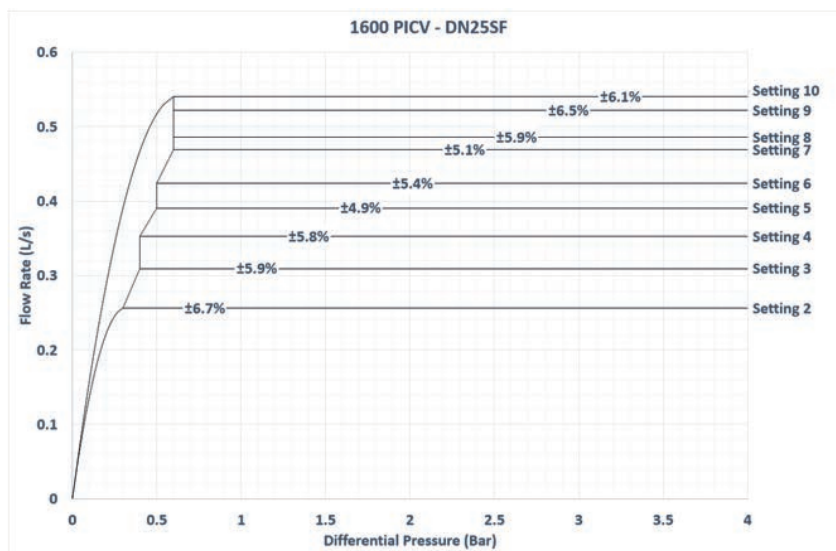
The Proflow Dynamic 1600 series valves can also be pre-set by referencing the design flow rate against a flow diagram.

isolation function

½" up to 6 bar max isolation pressure
¾" up to 10 bar max isolation pressure
This feature is designed for temporarily isolation and design for maintenance purposes





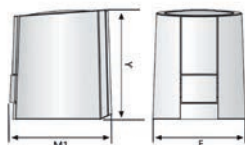


actuators

specification

- suitable for DN15 to DN25
- available as 24V normally closed, 230V normally closed, 24V modulating (0-10 DC control voltage) normally closed
- thermic and motoric actuators available for specific applications

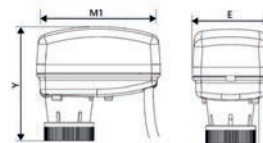
thermic



Type	Code	Total (kg)
24V Actuator (normally closed)	15202	0.14
24V Actuator (normally open)	15203	0.14
230V Actuator (on/off)	15280	0.14
24V (10-10V DC) Actuator modulating	15281	0.14

Connection	E	M1	Y
DN15 - 32	44.3	48.4	52.2
DN15 - 32	44.3	48.4	52.2
DN15 - 32	44.3	48.4	52.2
DN15 - 32	44.3	48.4	52.2

motoric



Type	Code	Total (kg)
24V Actuator modulating	18275	0.2
0-10V Actuator proportional	18276	0.2

Connection	E	M1	Y
DN15 - 32	49	80	73.6
DN15 - 32	49	80	73.6

accessories

Type	Code
Setting spanner	16075
DN15 Operating tool	16079
DN20 Operating tool	16080
DN15 Locking pin and tether	16076
DN20 Locking pin and tether	16077
Cap	16078
DN15 Low flow cartridge (white)	16070
DN15 Standard flow cartridge (red)	16071
DN15 High flow cartridge (black)	16072
DN20 Standard flow cartridge (white)	16073
DN20 High flow cartridge (black)	16074
DN25 Standard flow cartridge (black)	16074

flow meter



Type	Code
Proflow BC3 flow meter	16395



To download app, search for Pegler BC3



App requires Pegler BC3 flow meter

Our fully integrated piping system incorporates a unique offering bringing together valves, fittings and pipes into one complete pipe-work system. It combines the best world-class elements of modern connection and valve technology, incorporating press, push, groove, compression, capillary and threaded solutions for copper, steel, multilayer and plastic pipes, with an emphasis on delivering heat free jointing.

head office

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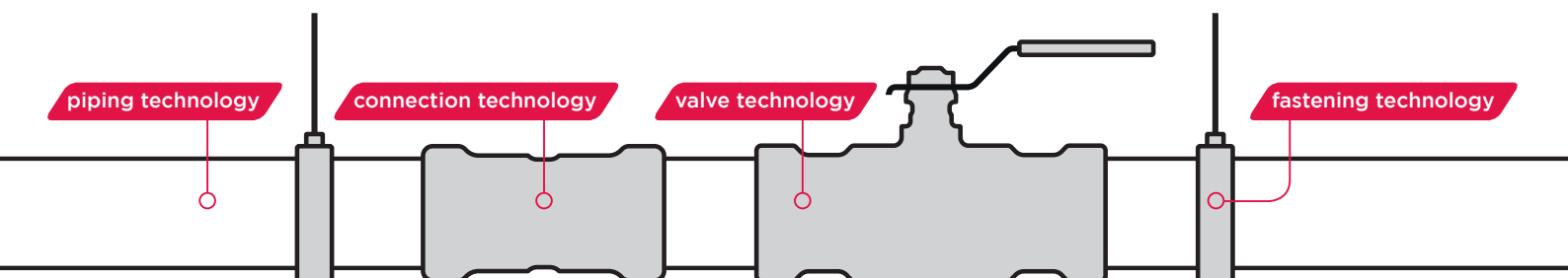
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