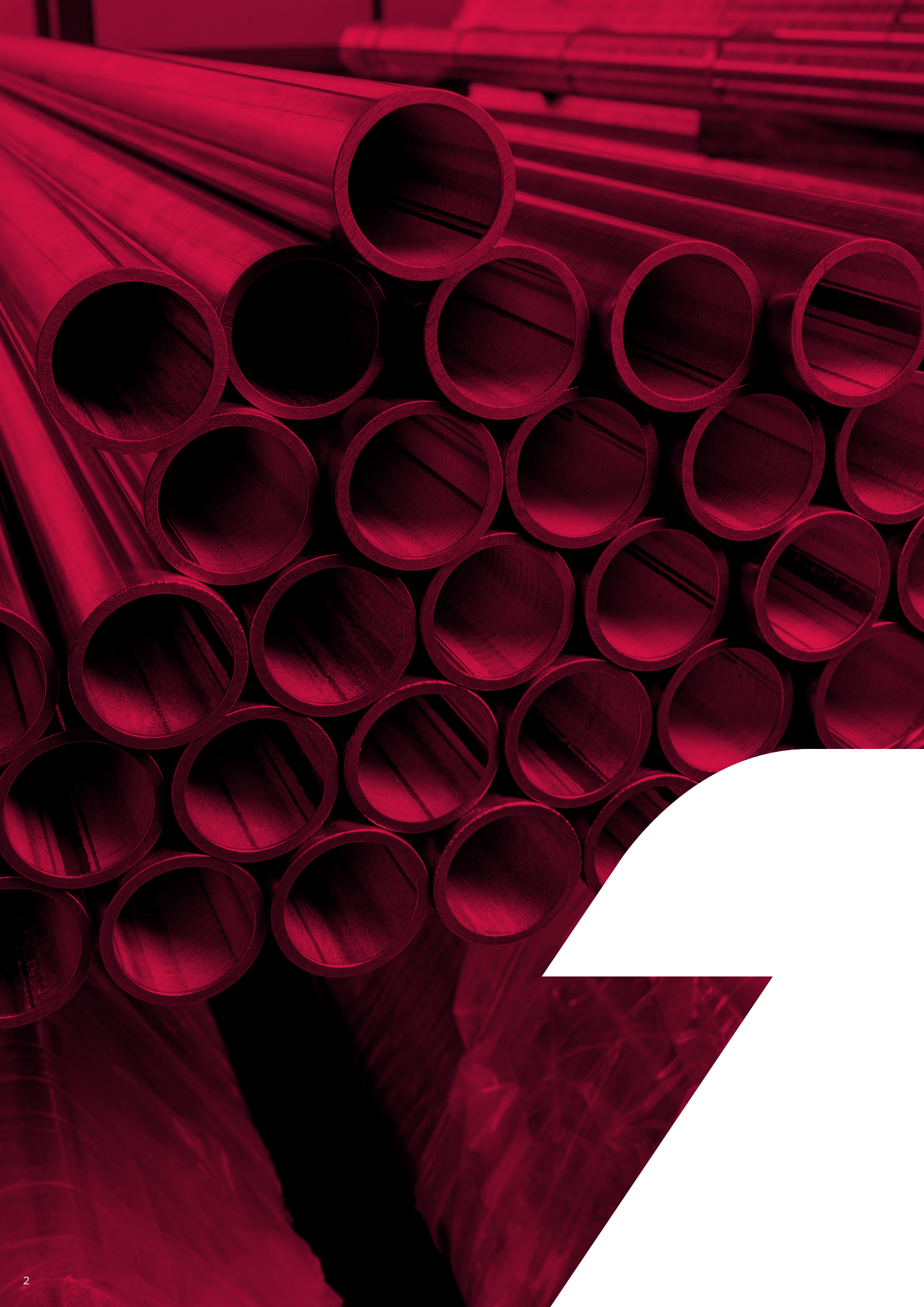


Pegler ProFlow





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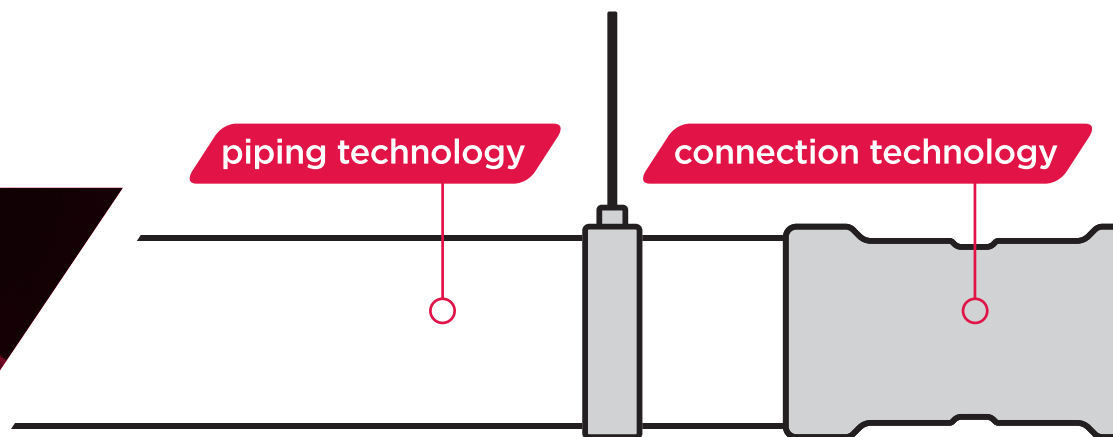
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Aalberts integrated piping systems

don't just buy
products,
buy solutions.



we are Aalberts integrated piping systems

Aalberts integrated piping systems engineers the most advanced integrated piping systems for the distribution and control of liquids and gases for key verticals, like industrial, utilities, commercial and residential. We offer fully integrated piping systems in valve, connection, fastening and piping technology. We work hand-in-hand with our customers to create the perfect integrated piping system, that meets their requirements. Our piping systems are easy to specify, install, control and maintain, saving important preparation and installation time. We meet the highest quality and industry standards needed in the selected verticals. We are the only business that truly offers its customers a single sourced and complete integrated piping solution, each and every time.

Don't just buy products, buy solutions.

our mission

With our integrated piping systems, supported by the unique Aips Digital Design Service, we ensure that you will always get the best and easiest solution for the installation of an integrated piping system. From the moment that your plan is being sketched out on the digital drawing board, you can get advice on complete and tailored solutions. With the Aips Revit Plug-in you have digital access to the complete product offering within Aalberts integrated piping systems. This information is always accessible and up to date, allowing the design of an optimal and economically attractive installation that will meet all your demands. So whether the task is project conception, installation, or on-going maintenance, we are the company that truly delivers a complete system and service offering. Our know-how, our can-do attitude, and our relentless innovation come as standard. We will sweat the small stuff in our quest to find the perfect solutions, even if we have to invent them.

This is how we deliver excellence.

our way or working

We operate from various regions around the globe: America, United Kingdom, Middle East, Asia Pacific and Europe. As we have multiple locations in many countries, we are always close to our customers. More than 3500 mission critical employees are persistent to offer the best integrated piping system. They work on our products, solutions and services every day. No matter how big the opportunity is, when we say we've got this, we won't let go until there is nothing left to learn. We improve ourselves by exchanging knowledge and experience to stay ahead of our competitors.

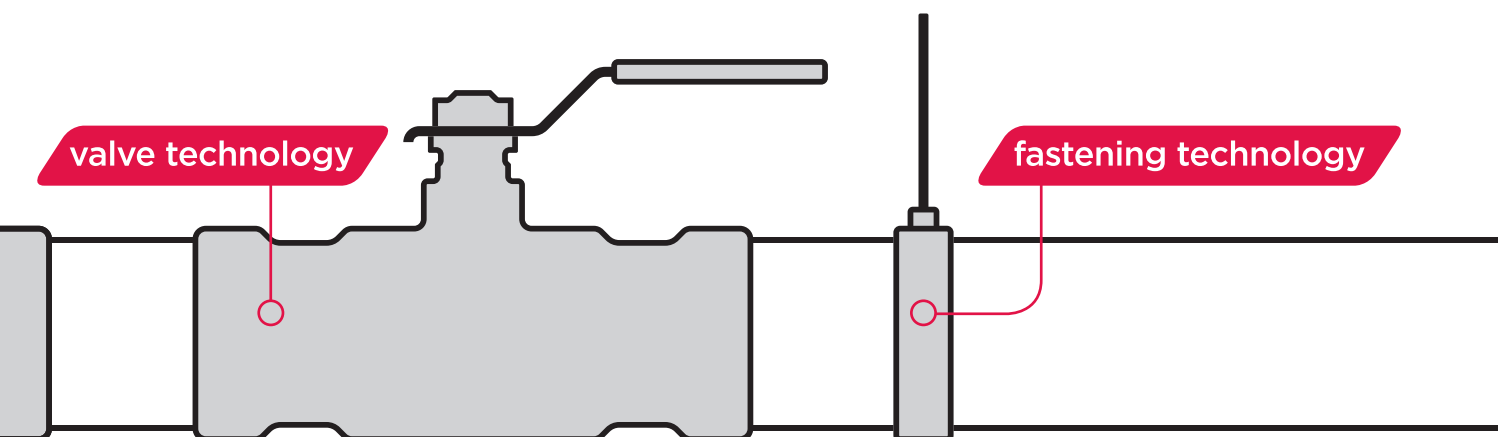
Good is never good enough.

With our sustainable spirit we contribute to circularity every single day. This belief is strongly linked to the way we do business. Rethink, reduce and recycle. We are entrepreneurial and take ownership in everything we do. We are convinced that self-development and diversity is essential.

The Aalberts way, winning with people.

the strength of Aalberts integrated piping systems

- the perfect solution for every project
- smart, fast and efficient installation
- valuable advice from the drawing board to delivery
- a very wide product range



Aalberts integrated piping systems connect: our systems are easy to combine with each other

Aalberts integrated piping systems is the combination of different companies with a strong legacy in their markets. The individual brands are well-known and each represents a long history. Together they offer the best integrated piping system for now and in the future.

Connection technology

VSH

VSH has been supplying quality products for 90 years and delivers piping systems and fittings throughout the world. In the 1970's VSH brought the well-known VSH Super compression fitting on the market which is still a best-seller, followed by the VSH XPress pressfitting, a technology that makes it possible to realize a connection even faster and more reliable.

Shurjoint

The history of Shurjoint dates back to 1974, when the founders produced their first grooved couplings. These first couplings were produced from malleable iron, the casting material of choice at this time. Shurjoint is recognized as a world leader in the design and manufacture of mechanical piping components.

Valve technology

Pegler

Pegler is well known and respected as being 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, which has been the hallmark of the company since the establishment in the 1890's. Today Pegler is one of the key players in the valve industry, bringing a continues flow of new products to the market, like the ProFlow. The ProFlow delivers an exceptional performance and accuracy throughout the entire range.

VSH PowerPress®



material	carbon steel
suitable for	thick-walled steel
connection	press / DW-profile
dimensions	½" - 2" (DN15 - DN50)

VSH Shurjoint



material	ductile iron / stainless steel
suitable for	thick-walled steel / stainless steel / HDPE
connection	groove
dimensions	½" - 104" (DN15 - DN2600)

Aalberts integrated piping systems range

We offer a series of product ranges that:

- connect seamlessly
- are available in dimensions from 6 mm up to 104" (DN2600)
- can be used for thick-walled pipe and thin-walled metal or plastic tube
- have press, compression, groove and push connections
- can be expanded with valves and accessories
- are BIM ready



Pegler Terrier



material	brass
suitable for	copper pipe / multi layer pipe (for push connections)
connection	push / threaded / compression
dimensions	8 - 15 mm

Pegler Valve



material	brass / brass (DZR) / cast iron / copper stainless steel / bronze
suitable for	range of pipe depending on the connection tech used
connection	threaded / push / press / flanged / compression / lugged / wafer
dimensions	DN15 - DN600

Pegler ProFlow



material	brass / ductile iron
suitable for	steel / stainless steel / copper
connection	thread / press / flange
dimensions	DN15 - DN600

VSH XPress



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

VSH MultiPress



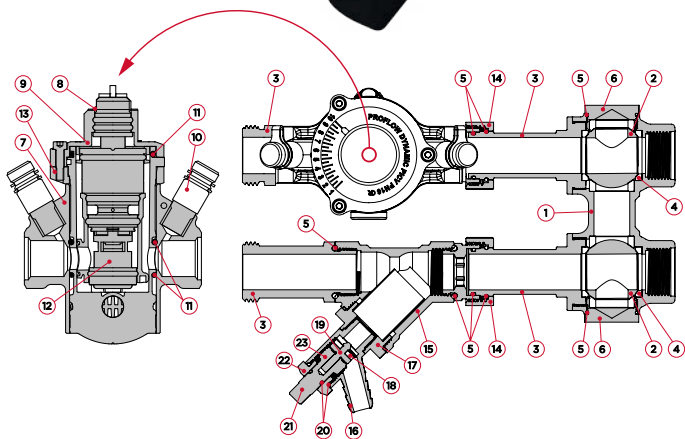
material	PPSU / brass
suitable for	multilayer tube
connection	press / U & TH profile
dimensions	14 - 63 mm (DN10 - DN50)

VSH Tectite



material	brass / stainless steel / copper
suitable for	thin-walled stainless steel / copper
connection	push
dimensions	10 - 54 mm (DN8 - DN50)

MVS65 1600 modular valve system



specification

- unique BSRIA compliance
- integrated bypass technology
- simplified backflush
- 65mm centres
- hot and cold indicators
- low, standard and high flow versions
- compact operation envelope
- includes insulation as standard (see data sheet)

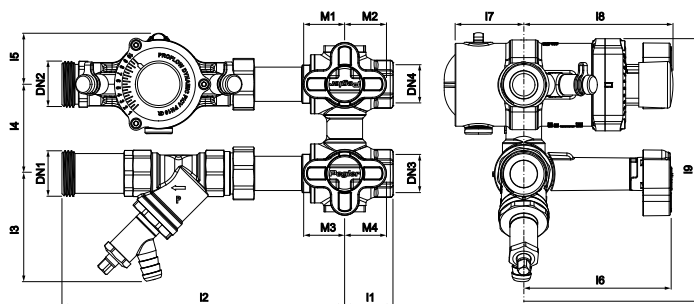
no.	component	material
Bypass		
1	h pattern valve assembly	DZR brass (CW602N)
2	balls	chrome plated brass (CW614N)
3	mvs adapter	DZR brass (CW602N)
4	seats	PTFE
5	o-rings	EPDM
6	drain off capp	DZR brass (CW602N)
PICV		
7	body	DR brass (CW511L)
8	indicator	stainless steel (AISI 304)
9	cap	DR brass (CW511L)
10	binder point	DZR brass (CW602N)
11	o-ring	EPDM
12	diaphragm	EPDM
13	clamp	DR brass (CW511L)
adapter nut		
14	adapter nut	brass (CW602N)
drain valve		
15	strainer	gunmetal (CC491K)
16	drain off body	brass (CW511N)
17	mvs m24 - m16 adapter	DZR brass (CW602N)
18	valve washer	EPDM
19	drain off valve	brass (CW511L)
20	o-ring	EPDM
21	drain off spindle	brass (CW511L)
22	drain off head	brass (CW511L)

maximum pressure [bar]

operating pressure	test pressure shell	test pressure seat
16	24	17.6

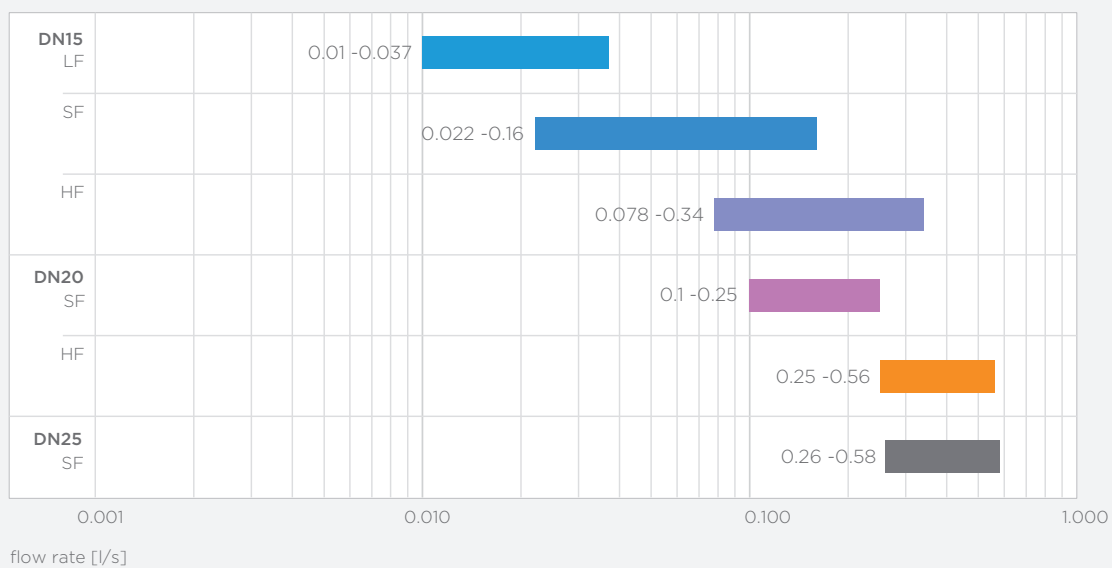
pressure equipment directive category

all sizes SEP



dimension	code	weight (kg)	I1	I2	I3	I4	I5	I6	I7	I8	DN1/ DN2	DN3/ DN4	M1	M2	M3	M4
G½" (DN15) LF	18630	3.15	35	206	79	65	37	107	50	177	15	15	30	30	30	30
G½" (DN15) SF	18631	3.15	35	206	79	65	37	107	50	177	15	15	30	30	30	30
G½" (DN15) HF	18632	3.15	26	206	79	65	37	107	50	177	15	15	30	30	30	30
G¾" (DN20) SF	18633	3.70	26	206	79	65	37	107	50	177	20	20	30	30	30	30
G¾" (DN20) HF	18634	3.70	26	206	79	65	37	107	50	177	20	20	30	30	30	30
G1" (DN25) SF	18635	3.70	26	206	79	65	37	107	50	177	20	25	30	30	30	30

dimension	flow [l/s]		flow [l/min]		flow [l/h]	
	min.	max.	min.	max.	min.	max.
G½" (DN15) LF	0.010	0.037	0.60	2.22	36.0	133.2
G½" (DN15) SF	0.022	0.160	1.32	9.60	79.2	576.0
G½" (DN15) HF	0.078	0.340	4.68	20.40	280.8	1224.0
G¾" (DN20) SF	0.100	0.250	6.00	15.00	360.0	900.0
G¾" (DN20) HF	0.250	0.560	15.00	33.60	900.0	2016.0
G1" (DN25) SF	0.260	0.580	15.60	34.80	936.0	2088.0



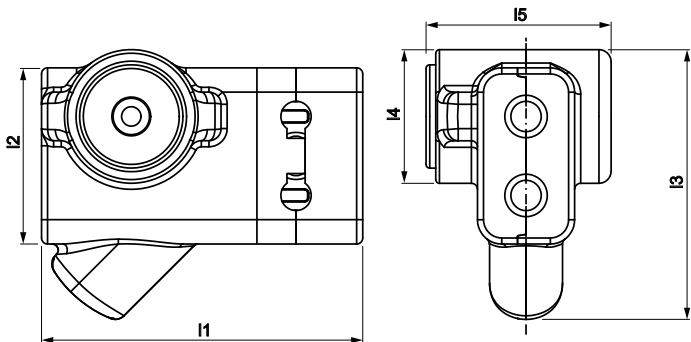
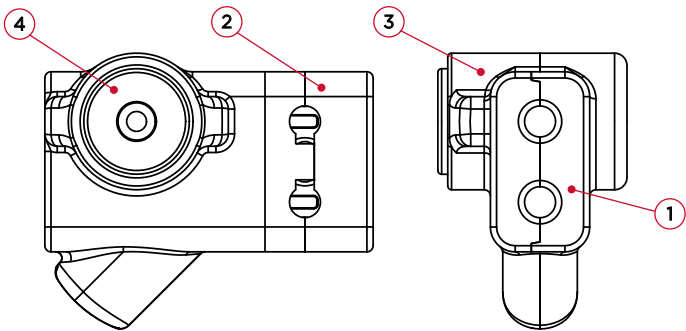
flow rate Pegler ProFlow 1600 PICV
min and max delta P 30kpa - 400kpa

1600INS MVS insulation jacket



specification

- epp black insulation
- recyclable
- compact design
- RoHS Directive 2011/65/EU and (EU)2015/863
- available as a spare



no.	component	material
Bypass		
1	base	expanded polypropylene (EPP)
2	bypass top	expanded polypropylene (EPP)
3	control valve top	expanded polypropylene (EPP)
4	control valve cap	expanded polypropylene (EPP)

pressure equipment directive category	
all sizes	SEP

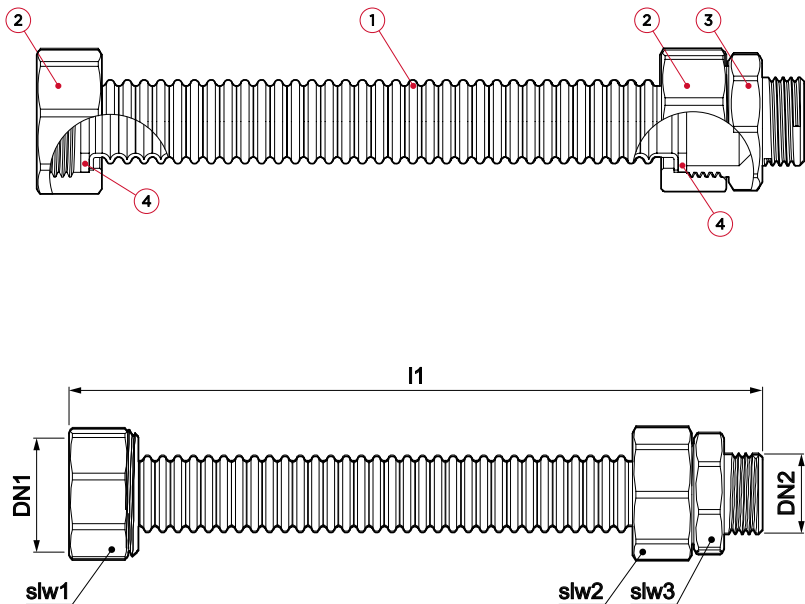
dimension	code	weight (kg)	I1	I2	I3	I4	I5	I6
15 (DN15-DN25) SF	18650	1.73	264	145	79	222	110	152

1600TLS flexible tails (PN16)



specification

- stainless steel corrugated flexible hose
- max test pressure up to PN16
- max operating pressure 10 bar
- size ranged from 1/2" to 1"
- light weight and durable



no.	component	material
1	corrugated Pipe DN15	SS304
2	union Nut G3/4" BS 2779	CW617N
3	male connector	CW617N
4	flat seal	Silicon

maximum pressure [bar]	
operating pressure	max test pressure
10	16

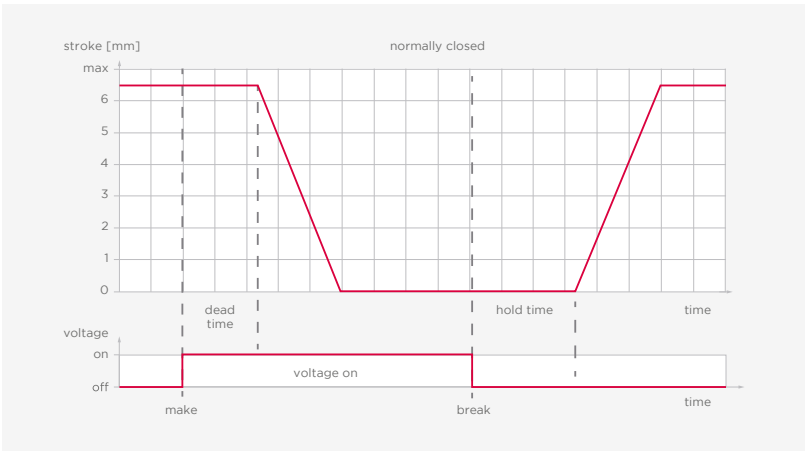
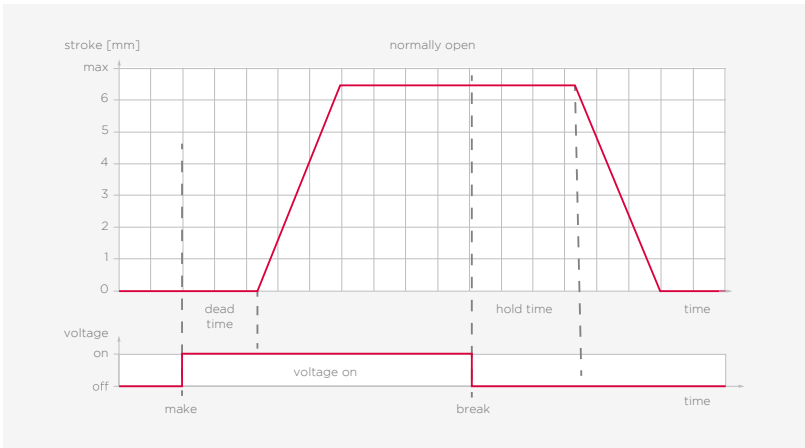
dimension	code	weight (kg)	l1	DN1	DN2	slw1	slw2	slw3
DN15	18640	0.156	183	R 1/2"	15	33	33	31
DN20	18641	0.127	183	R 3/4"	15	33	33	31
DN25	18642	0.152	183	R 1"	15	33	33	31

AT01 electro thermal actuator
(open/closed)

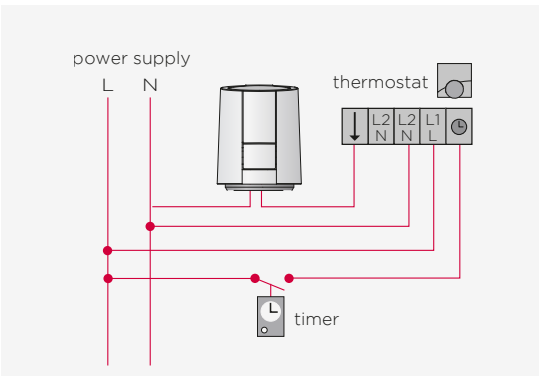


specifications

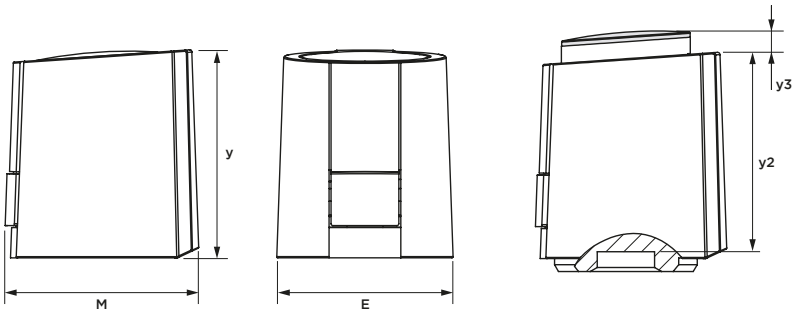
- compact dimensions
- first-open function
- maintenance free
- noiseless
- low power consumption
- 360° installation position
- fire resistance to UL94V-0
- position indicator



specifications	on/off actuator 24v	on/off actuator 230v
operating voltage	24VAC/DC -10 % to +20 %	230VAC -10 % to +10 %
operating power	2.3V A 1W	3.6V A 1W
actuator stroke	4/5/6.5 mm	4/5/6.5 mm
stroke time	approx. 3.5 min/ 4 min/5 min	approx. 3.5 min/ 4 min/5 min
actuating force	100/125N	100/125N
ambient temperature	0 to 60°C - operating - storage -25 to 60°C	0 to 60°C 0 to 50°C -25 to 60°C
protection class	IP54	IP54
connecting cable	1 m long, 2 core	1 m long, 2 core
housing	moulded plastic	moulded plastic
CE conformity	EN 60730-1	EN 60730-1



In the example above the actuator is connected to a power supply of 24VAC, 24VDC or 230VAC. In case the thermostat switch is activated and the actuator being in the normally closed version, the valve is opened steadily by the plunger motion. In the normally open version the valve is closed.



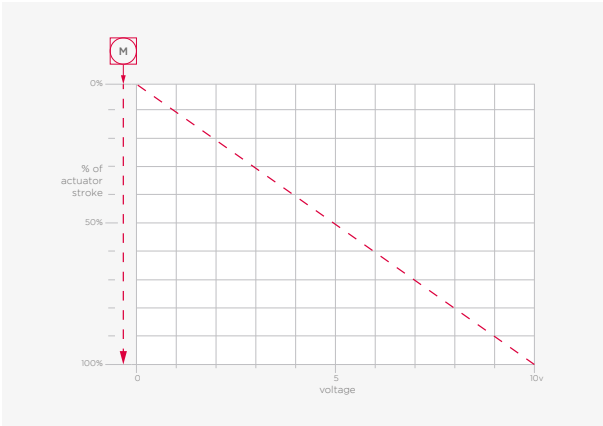
actuator type	article no.	voltage	weight (kg)	E	M	y1	y2	y3
DN15 - DN32 (normally closed - NC)	15202	24VAC/DC	0.14	44	48	52	50	7
DN15 - DN32 (normally open - NO)	15203	24VAC/DC	0.14	44	48	52	50	7
DN15 - DN32 (normally closed - NC)	15280	230VAC	0.14	44	48	52	50	7

AP01 electro motoric actuator
(proportional control with feedback)

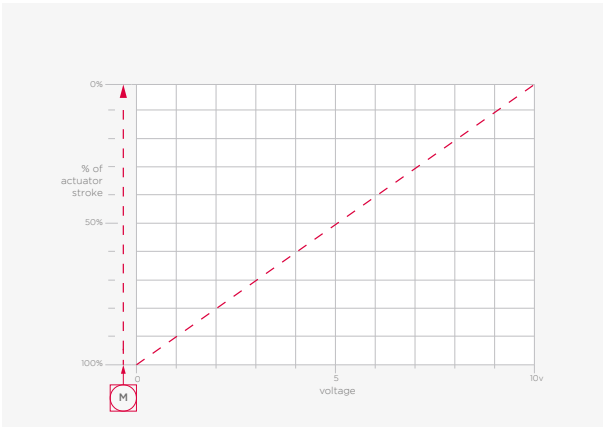


specifications

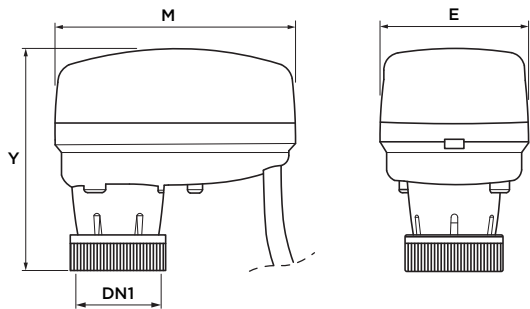
- fast acting
- double colour LED
- removable cable
- self adapting
- includes feedback
- reverse acting set as default



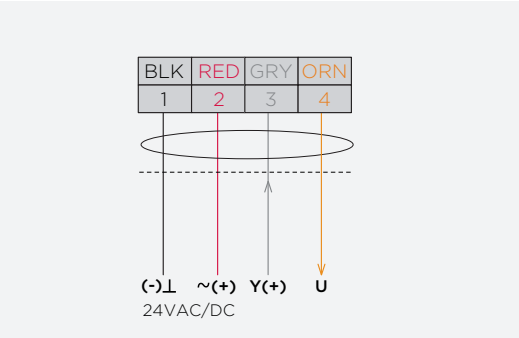
Graph demonstrates reverse acting



Use Dip switch to alternate to direct acting



specifications	proportional actuator 24VAC
operating voltage	24VAC
operating power	6.0V A
actuator stroke	6.3mm self adapting
stroke time	8 sec/mm
actuating force	160N
operating temperature	0 - 50°C
storage temperature	-20 - 65°C
protection class	IP54
storage humidity	0 - 95%
operating humidity	10 - 95%
connecting cable	2.0m long (4 x 0.35mm ²)
housing	ABS + PC
CE conformity	EN 60730-1



When the power is applied, the actuator self-calibrates performing an auto zero detection cycle. The actuator moves the stem down for a complete mechanical valve stroke until no changes are detected. Once the auto-zero is detected the actuator moves the stem accordingly with the input signal, within the value of the electrical stroke as per jumper setting.

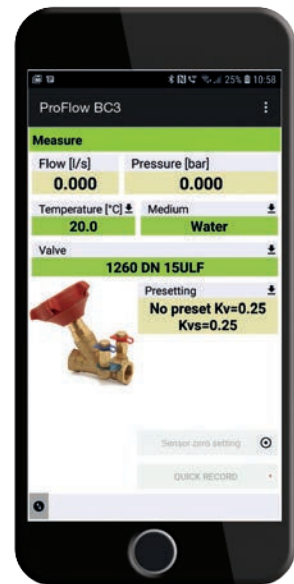
With the actuator configured as reverse action (RA):

When the input signal increases (eg. from 0V to 10V) the actuator stem retracts.

When the input signal decreases (eg. from 10V to 0V) the actuator stem extends.

valve type	article no.	voltage	weight (kg)	DN1	E	M	Y
DN15 - DN25	18276	24VAC (0-10VDC)	0.2	M30 x 1.5	49	80	74

BC3 Pegler ProFlow balancing computer



To download app search for Pegler BC3



App requires Pegler ProFlow BC3 balancing computer

specifications

- digital compensation of temperature effects
- user app for Android / iOS mobile devices
- correction of antifreeze flow calculation
- easy selection of balancing valve according to valve illustration
- capability of saving up to 2000 measured valves
- cover IP65 rated

Verification of flow can be done using a suitable flow measurement device and utilising the built-in test points on the valve.

The Pegler ProFlow BC3 balancing computer is supplied pre-programmed with the loss coefficient data (k values) allowing a direct measurement of flow rate to be obtained ensuring the system is balanced correctly to achieve optimum efficiency.

product specification	
wireless data transfer	Bluetooth low energy 5.0
power supply	AAA Alkaline batteries or NiMH rechargeable batteries
power consumption	25 mA
operating time	45 h Max
zeroing of the pressure measurement	mechanical with hydraulic bypass
water resistance	IP65
calibration validity	24 months

maximum pressure conditions	
normal pressure range	1.000 kPa
max. over pressure	120% of nominal pressure
linearity and hysteresis error	0.15% from nominal pressure range
error for the pressure range 0 till 5 kPa after pressure zero setting	± 50 Pa for nominal pressure range 1 MPa
temperature error	0.25 % from nominal pressure range
medium temperature**	-5 - 90°C
ambient temperature	-5 - 50°C
storage temperature	-5 - 50°C

** measured at the end of measuring hoses, length 1.5 m. Hot water flows through BC3 ProFlow Technics hydraulic parts during pressure zero procedure. Maximum time duration of zeroing when temperature of the medium exceeds 50°C is 10 seconds.

article no.	description	weight [kg]	length [mm]	width [mm]	height [mm]
16395	Pegler ProFlow BC3	0.420	180	80	52

1600SSP setting key
(for Pegler ProFlow 1600 PICV)



dimension	article no.
DN15 - DN25	16075

1600PT operating tool
(for Pegler ProFlow 1600 PICV)



dimension	article no.
DN15	16079
DN20 - DN25	16080

1600LPT locking pin and tether
(for Pegler ProFlow 1600 PICV)



dimension	article no.
DN15	16076
DN20 - DN25	16077

1600CP actuator head protection cap
(for Pegler ProFlow 1600 PICV)



dimension	article no.
DN15 - DN25	16078

more information?

For a complete and up-to-date product range and our additional services, visit: www.pegler.co.uk

Would you like to make an appointment to meet an account manager in your region or receive advice and support from one of our experts? Please contact:

Aalberts integrated piping systems Ltd

tel: +44 (0) 1302 560 560

email: info.uk@aalberts-ips.com

www.pegler.co.uk

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