Product Range
Middle East

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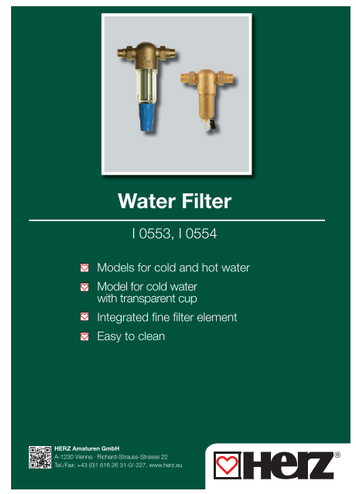
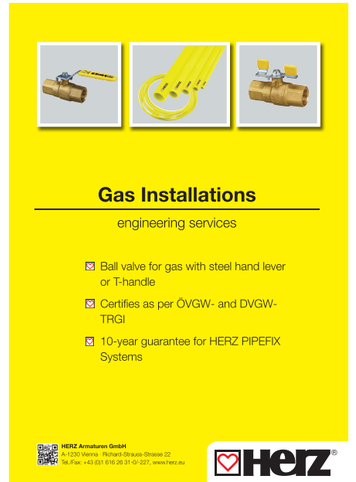
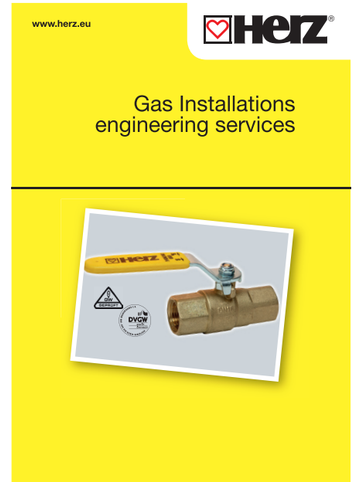
BPL-DE-0715-Bell-2SD

CERTIFICATIONS







SIGNS AND SYMBOLS

SIGN	DIMENSION	UNIT
A	Length of the handle	[mm]
B	Length of the handle	[mm]
Cu	Diameter of the copper pipe	[mm]
d	Diameter of the copper pipe	[mm]
D	Length	[mm]
DN	Nominal dimension	[mm]
G	Thread dimension	[in]
G1	Thread dimension	[in]
G2	Thread dimension	[in]
H	Height	[mm]
h	Height	[mm]
H1	Length	[mm]
H2	Length	[mm]
hmax	Maximum length	[mm]
hmin	Minimum length	[mm]
L	Length	[mm]
L1	Length	[mm]
MOP	Maximum working pressure	[bar]
P	Power	[kW]
Piz	Pressure	[bar]
PN	Pressure	[bar]
Rp	Thread dimension	[in]
Rp - R	Thread dimension	[in]
Sw	Dimension of the wrench	[mm]
Sw1	Dimension of the wrench	[mm]
Sw2	Dimension of the wrench	[mm]
T	Temperature	[°C]
	Weight	[kg]

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- butterfly valves, gate valves, shut-off valves
- check valves, strainers
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- Bronze Valves
- Connect-4
- pipes & connections

2. WATER

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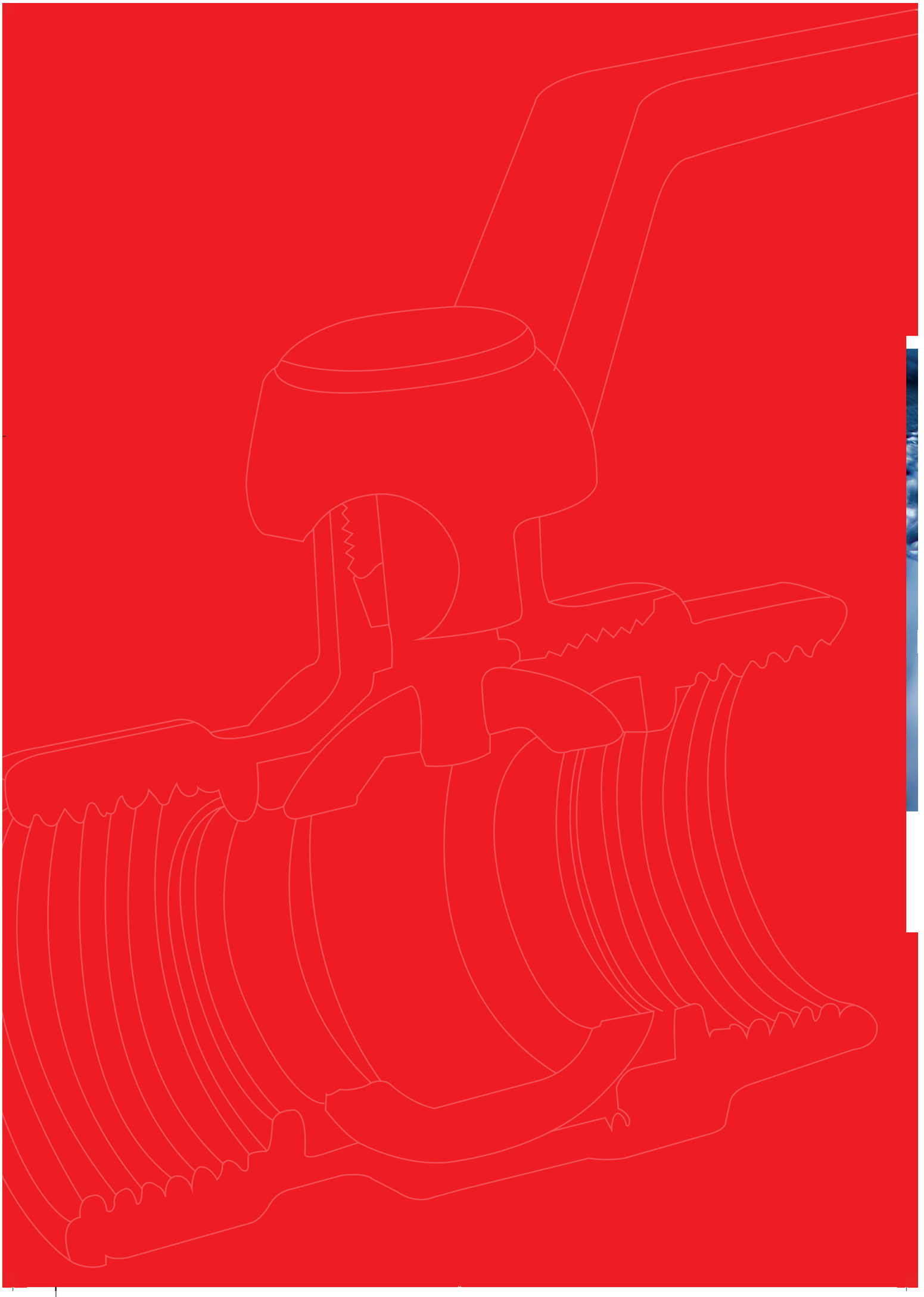
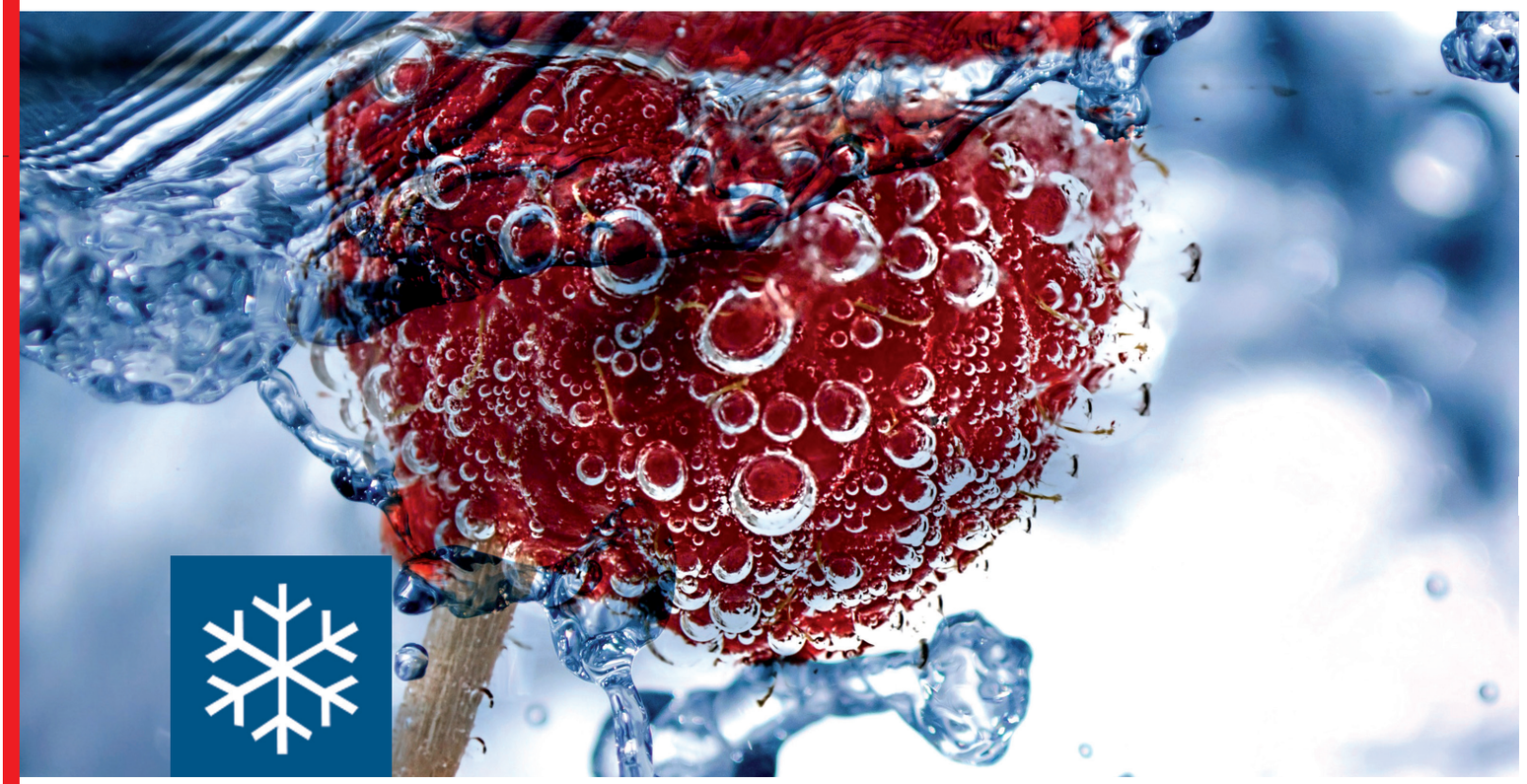
- drain valves
- backflow preventers
- distributors
- balancing valves, regulating valves
- mixing valves

3. GAS

- ball valves
- strainers
- accessories





01/HVAC

Premium functionality

Room Thermostat

H 7711

Room Modulating Thermostat with Digital Display

- Supply voltage: 24V/50Hz
- Temperature Range: 5˚C - 35˚C
- Easy Temperature adjustments with up - down arrows
- Auto fan with adjustable 3 fan speed
- 0-10v/4-20mA modulating valve control
- Dimension; 86 x 86 x 23 mm

Order number	Supply voltage
H **7711**	24 V

H 7712

HERZ Room Thermostat with Large Digital Display

- Supply voltage : 230V/50 Hz
- Temperature Range : 5˚C - 35˚C
- Easy Temperature adjustments with up - down arrows
- Auto fan with adjustable 3 fan speed
- 7 days programmable with timer function
- Dimension : 90 x 90 x 15 mm

Order number	Supply voltage
H **7712**	230 V

H 7713

HERZ Economic Digital Room Thermostat

- Supply voltage : 230V/50 Hz
- Temperature Range : 5˚C - 35˚C
- Easy Temperature adjustments
- Auto fan with adjustable 3 fan speed
- Dimension 86 x 86 x 13 mm

Order number	Supply voltage
H **7713**	230 V

H 7720

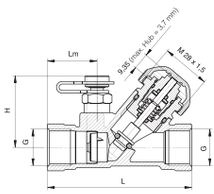
Fan Coil Thermostat

- Electrical Rating: 220V, 50/60Hz
- Fan 3-speed, on/off valve
- Standard, Modbus, WIFI model optional
- Embeded mounted

Order number	Supply voltage
H **7720**	220 V

FODRV Control Valve

7217 V



Technical data:

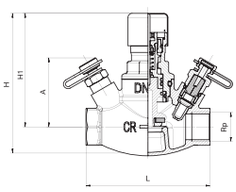
- Max. operating temperature: 130 °C
- Max. operating pressure: 20 bar
- Max. differential pressure on the seat: 10 bar

Material: DZR

STRÖMAX	Order number	DN	L	Lm	Rp	H	SW	Kv	Kvs Fixed Office
TS-V LF	1 **7217** 50	15	83	28,5	1/2	41	27	0,07 - 0,45	0,48
TS-V MF	1 **7217** 59	15	83	28,5	1/2	41	27	0,32 - 0,88	0,97
TS-V	1 **7217** 51	15	83	28,5	1/2	41	27	0,51 - 1,70	1,95
TS-V	1 **7217** 52	20	91	31	3/4	41	32	0,33 - 3,40	3,95

FODRV Control Valve

7217 GV



Technical data:

- Max. operating pressure: 16 bar
- Max. diff. pressure on the body: 4 bar
- Max. diff. pressure on the seat: 4 bar
- Min. operating temp.: 2 °C (pure water)

Materials:

- Body: DZR (CC752S)
- Bonnet: DZR (CW602)
- Sealings and O-rings EPDM

Order number	DN	Rp	L	H	H1	H + actuator	A	Kvs	M
1 **7217** 71	15	1/2	90	101	82	162	50	5	M 28 x 1.5
1 **7217** 72	20	3/4	97	101	82	162	50	5.6	M 28 x 1.5
1 **7217** 73	25	1	110	114	88	168	50	7.78	M 28 x 1.5

Control Valve with reverse function

7760 RD

Technical data:

- Body: Brass nickel plated
- Spindle: Stainless steel
- Sealings: EPDM
- Connections: Outside threads with cone to connect with compression units
- Actuating Thread M28 x 1,5
- Max. operating temperature: 120°C
- Min. operating temperature: -20°C
- Max. operating pressure: 16 bar

Order number	DN	Dim.	Kvs
1 **7760** 51	15	G 3/4	2.81
1 **7760** 52	20	G 1	3.21

Adapter

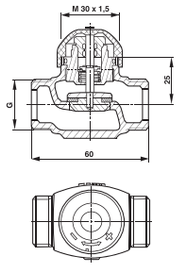
7708

Order number	Dim.
1 **7708** 86	M30 x 1.5

Adapter for HERZ Actuator, light gray for use with termostatic valves M 30 x 1.5.

Thermostatic Valve

7760



Order number	DN	G	Kvs	Stroke [mm]
1 **7760** 21	10	1/2	0.16	4
1 **7760** 01	10	1/2	0.4	4
1 **7760** 02	10	1/2	0.6	4
1 **7760** 03	10	1/2	1.0	4
1 **7760** 04	10	1/2	1.6	4
1 **7760** 05	15	3/4	2.5	4
1 **7760** 07	15	3/4	3.5	4
1 **7760** 08	20	1	4.5	4

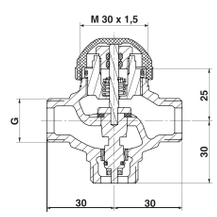
Technical data:

- Max. operating temperature: 120°C
- Min. operating temperature: -20°C
- Max. operating pressure: 16 bar

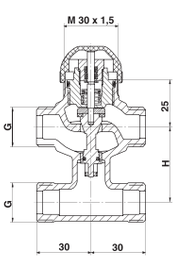
Material: DZR

Thermostatic Three-Port Valves

7762



7763



Technical data:

- Max. operating temperature: 120°C
- Min. operating temperature: -20°C
- Max. operating pressure: 16 bar

Material: DZR CWC14N

Order number		DN	G	Kvs-value straight flow	Kvs-value bypass flow	Stroke [mm]	H
1 **7762** 50	1 **7763** 50	10	1/2	0.4	0.3	3.7	40
1 **7762** 60	1 **7763** 60	10	1/2	0.6	0.5	3.7	40
1 **7762** 70	1 **7763** 70	10	1/2	1.0	0.8	3.7	40
1 **7762** 80	1 **7763** 80	10	1/2	1.6	1.2	3.7	40
1 **7762** 51	1 **7763** 51	15	3/4	2.5	1.9	3.7	40
1 **7762** 61	1 **7763** 61	15	3/4	4.0	3.0	3.7	40
1 **7762** 62	1 **7763** 62	20	1	5.0	3.8	3.7	40

CALIS-TS-RD Three-Port Valve for thermostatic operation

7761 RD

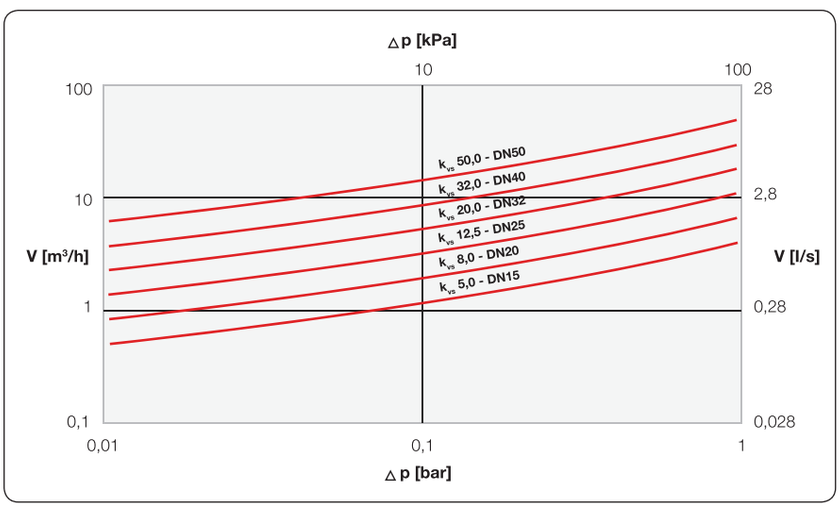
Technical data:

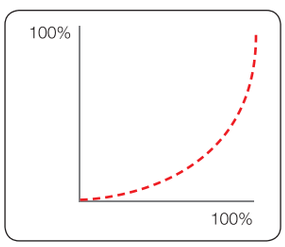
- Valve body: brass (CC754S-GM)
- Spindle: stainless steel
- Seals: EPDM
- Upper part: cover blue plastic cap
- Thermostat threaded connection: M 28 x 1,5
- Max. operating temperature: 120 °C
- Min. operating temperature: 2 °C
- Max. operating pressure: DN 15, 20 10 bar
- Max. operating pressure: DN 25, 32 16 bar
- Max. pressure drop for thermostatic operation: 0.2 bar

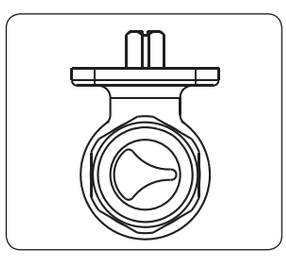
Order number	DN	R	Kvs
1 **7761** 38	15	3/4	3.00
1 **7761** 39	20	1	3.00
1 **7761** 40	25	1 1/4	6.27
1 **7761** 41	32	1 1/2	6.44

Flow diagram-2117

Flow Diagram







Description

The HERZ-control valve is characterized with high reliability and precision.The spindle of the ball valve is connected to the axle of the drive automatically. The ball is made of forged brass. Thisis realized by means of a profiled orifice in the ball. The seat seal is provided by a teflon collar sleeve insert. EPDM O-Rings are inserted behind these two collar sleeve insert. EPDM O-Rings are inserted behind these two sleeves. These O-Rings allow the balland both collars a small axial movement, which realizes a high density and low torques. The spindle is sealed by two O-Rings. O-Rings can not be replaced.

Properties

HERZ two-port ball valve with internal thread for precise control, without leakage. Control ball valve for continuous control of cold water, hot water or air in closed circuits.

Ball with equal percentage characteristic
Spindle with large sliding surface and teflon sealing ring
Highest ratio 500:1
Low torque due to the collar sealed with O-Ring

Material

- Body forged brass (CW602N) acc. to EN 12165
- End connections forged brass (CW602N) acc. to EN 12420
- Ball pressed brass (CW602N), V-shape bore, machined to a microsmooth finish, chrome plated EN 12165
- Ball seat Teflon (PTFE) with O-Ring (EPDM)
- Spindle brass (CW614N)
- Spindle sealing O-Ring double (EPDM)
- Spindle seat Teflon (PTFE)
- Connections Female threads acc. to ISO 7-1

Operating data:

- Maximum operating pressure PN 40 from DN15 to DN25, PN25 from DN32 to DN50
- Operating temperature - 10 °C to 110 °C
- Medium cold and hot water, water with max. 50% volume of glycol
- Angle of rotation (Spindle) 90°Torque (at nominal voltage): < 8 Nm

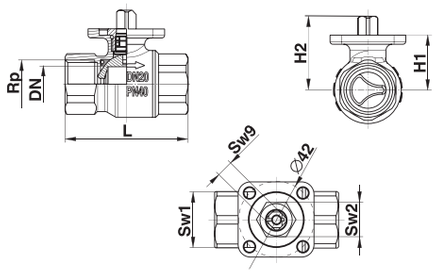
Control Ball Valve with handle

2117

Order number	DN	PN	Rp	L	H1	H2	SW1	SW2	Kvs	
1 **2117** 01	15	40	1/2″	60	27,5	38	25	19	5	0.252
1 **2117** 02	20	40	3/4″	68	30,5	41	31	19	8	0.364
1 **2117** 03	25	40	1″	81	38	48,5	41	20	12.5	0.671
1 **2117** 04	32	25	1-1/4″	95	41,5	52	51	20	20	1.024
1 **2117** 05	40	25	1-1/2″	106	47	57,5	55	20	32	1.496
1 **2117** 06	50	25	2″	127	54,8	65,3	70	20	50	2.652

Technical data:

- Max. operating pressure: PN 40 from DN15 to DN25, PN25 from DN32 to DN50
- Operatring temperature: - 10 °C to 110 °C
- Medium: cold and hot water, water with max. 50% volume of glycol
- Angle of rotation (Spindle): 90°Torque (at nominal voltage): < 8 Nm



HERZ-Rotary Actuator for 2-Port Control Ball Valves

7712

Order number	Type	Torque	Nominal voltage	Control
1 **7712** 33	Actuator for 2-Port Control Ball Valve	8 Nm	230 V / AC	2 / 3-Point
1 **7712** 35	Actuator for 2-Port Control Mixing Valve	8 Nm	24 V / AC / DC	Modulating
1 **7712** 60	Actuator for 2 -Port Control Ball Valve	10 Nm	230 V / AC	Open / Close
1 **7712** 62	Actuator for 2-Port Control Ball Valve	10 Nm	24 V / AC	Modulating

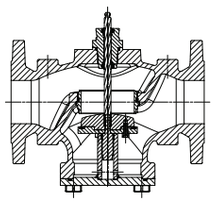
Technical data:

- Synchronous motor with control and shutoff electronics
- Protection class: IP 54

Two-Port Flanged Valve

F 4035

Order number PN16	DN	Stroke [mm]	Kvs	D	L	z	d	d_K	h1	H	
F **4035** 16	50	20	40	165	230	4	19	125	90	305	12.5
F **4035** 07	65	20	63	185	290	4	19	145	135	315	20
F **4035** 08	80	20	100	200	310	8	19	160	150	350	26
F **4035** 09	100	40	160	220	350	8	19	180	160	480	38
F **4035** 10	125	40	250	250	400	8	19	210	185	520	64
F **4035** 41	150	40	330	285	480	8	23	240	180	525	77



Technical data:

Body material: **PN 16:** EN-GJL-250 (EN 1561), flange according to EN1092-2
PN 25: EN-GJS-400-18-LT (EN 1563), flange according to EN1092-2

Temperature range: 5°C to 140°C

Three-Port Mixing Valve with handle

2137

Technical data:

- Body: forged brass (CW602N)
- according to EN 12420
- Ball: brass
- Sealing: EPDM (Gasket)
- Nominal pressure: 10 bar
- Operational temperature: -10 °C - 110 °C
- Short time op. temperature: 130 °C

Order number	DN	PN	Sw	G	Kvs	
1 **2137** 01	15	10	27	1/2″	4	0.403
1 **2137** 02	20	10	31	3/4″	6.3	0.447
1 **2137** 03	25	10	39	1″	10	0.790
1 **2137** 04	32	10	49	1-1/4″	16	1.041
1 **2137** 05	40	10	59	1-1/2″	25	1.712
1 **2137** 06	50	10	72	2″	40	2.585

Three-Port Mixing Valve with 3-Point Actuator (1 **7712** 25, 27)

2137

Order number	DN	
1 **2137**	11	15
1 **2137**	12	20
1 **2137**	13	25
1 **2137**	14	32
1 **2137**	15	40
1 **2137**	16	50

7712

Order number	Type	Torque	Nominal voltage	Control
1 **7712** 25	Actuator for 2/3-Port	10 Nm	230 V / AC	2/3-Point
1 **7712** 27	Actuator for 2/3-Port	10 Nm	24 V / AC / DC	2/3-Point / Modulating
1 **7712** 63	Actuator for 3-Point Control Mixing Valve	5 Nm	230 V / AC	3-Point

Four-Port Mixing Valve with handle (1 **2100** 95)

2138

Technical data:

- Female end connections
- Body and cone dezincification Brass
- EPDM gasket
- Medium temperature -10 °C – 120 °C

Order number	DN	Sw	G	Kvs	PN	
1 **2138** 01	15	27	1/2″	4	10	0.442
1 **2138** 02	20	31	3/4″	6,3	10	0.472
1 **2138** 03	25	39	1″	10	10	0.872
1 **2138** 04	32	49	1-1/4″	16	10	1.122

Four-Port Mixing Valve with 3-Point Actuator (1 **7712** 25, 27)

2138

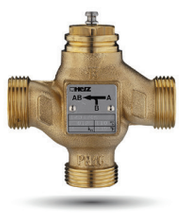
HERZ rotary drive for HERZ mixer 2137

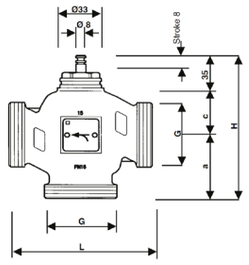
- Supply voltage 230 V AC
- Control: 2-point or 3-point, disengageable gearbox for positioning of the mixing valve and for manual adjustment, synchronous motor with control and shutoff electronics
- Torque 10 Nm, operating time 120 s
- Protection class IP 54
- Suitable for all installation orientations

Order number	DN
1 **2138** 21	15
1 **2138** 22	20
1 **2138** 23	25
1 **2138** 24	32

Three-Port Mixing and Diverting Valve

4037





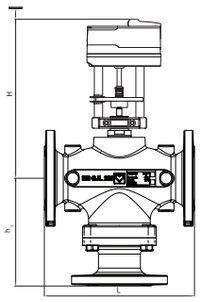
Technical data:

- Max. operating temperature: 15 - 130 °C
- Max. operating pressure: 16 bar / 130 °C till DN 32
- Max. operating pressure: 16 bar /110 °C for DN 40 & DN 50
  When the temperature < 0 °C we recommend to use the gland sealing heater, when the temperature > 100 °C - use the temperature adapter
- Valve characteristic: linear
- Leakage rate norm branch < 0,02 % from the Kv-value

Order number	Dim.	G	a	c	L	H	dp max.	Kvs
1 **4037** 15	1/2	G3/4B	50	32	100	117	4 bar	4
1 **4037** 20	3/4	G1 B	50	33	100	118	3 bar	6.3
1 **4037** 25	1	G1 1/2B	55	36	110	126	2 bar	10
1 **4037** 32	1 1/4	G2B	60	38	120	133	1,5 bar	16
1 **4037** 40	1 1/2	G2 1/4B	70	48	130	153	1 bar	25
1 **4037** 50	2	G2 3/4B	75	54	150	164	0,8 bar	40

Three-Port Flanged Valve

F 4037



Technical data:

- Min. operating temperature: 5 °C
- Max. operating temperature: 140 °C
- Valve curve characteristic: equal percentage
- Sealing material: FPM (ISO1629)
- Valve seat material: WN1.4021
- Valve cone material: up to DN 50 WN1.4021
- from DN 65 to DN 150 GG 25/WN1.4021
- Stem material: WN1.4057

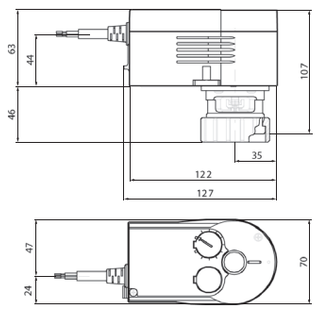
Body materials:

- **PN 16:** EN-GJL-250 (EN 1561), flange according to EN1092-2
- **PN 25:** EN-GJS-400-18-LT (EN 1563), flange according to EN1092-2

Order number PN16	DN	Stroke [mm]	Kvs	D	L	z	d	d_K	h1	H	
F **4037** 01	15	10	1	95	130	4	14	65	110	250	5
F **4037** 11	15	10	1.6	95	130	4	14	65	110	250	5
F **4037** 21	15	10	2.5	95	130	4	14	65	110	250	5
F **4037** 31	15	14	4	95	130	4	14	65	110	250	5
F **4037** 03	25	20	6.3	115	160	4	14	85	121	255	8
F **4037** 13	25	20	10	115	160	4	14	85	121	255	8
F **4037** 04	32	20	16	140	180	4	19	100	142	305	11.5
F **4037** 05	40	20	25	150	200	4	19	110	149	315	13
F **4037** 16	50	20	40	165	230	4	19	125	167	305	16
F **4037** 07	65	20	63	185	290	4	19	145	208	315	25
F **4037** 08	80	20	100	200	310	8	19	160	233	350	31
F **4037** 09	100	40	160	220	350	8	19	180	262	480	46
F **4037** 10	125	40	250	250	400	8	19	210	268	520	72
F **4037** 41	150	40	330	285	480	8	23	240	261	525	91

Valve Drives for Three-Port Valve,14037 Actuating Power 500N

7712



Order number	Type	Nominal voltage	
1 **7712** 11	Actuation of three-way valves	24V	For controllers with continuous output (0-10 V) or switching output (2-point or 3-point control)
1 **7712** 50	Actuation of three-way valves	230V	For controllers with a switching output (2/3-point control).
1 **7712** 51	Actuation of three-way valves	24V	For controllers with a switching output (2/3-point control)

Technical data 1 **7712** 11**:**

- Operation time: 60 / 120 s
- Stroke: 8 mm
- Pushing force: 500 N
- Weight: 0,7 kg
- Max. operating temperature: 100 °C on valve body
- Ambient temperature: -10 to 55 °C
- Ambient humidity: 5 to 95% r.F.
- Electrical protection: IP 54 (EN 60529)
- Control signal: 0 to 10 V, Rj >100 kOhm
- Positional feedback signal: 0 to 10 V, load > 10 kOhm
- Starting point U0: 0 to 10 V
- Power consumption: 60 s
- Operating: 7 VA
- Response time: 200 ms

Technical data 1 **7712** 50/51**:**

- Operation time 120 s
- Stroke 8 mm
- Pushing force 500 N
- Weight 0,7 kg
- Max. operating temperature 100 °C on valve body
- Ambient temperature -10 to 55 °C
- Ambient humidity 5 to 95% r.F.
- Electrical protection IP 54 (EN 60529)
- Power consumption: 120 s
- Operating: 1.5 VA
- Response time 100 ms

Handwheel for Three-Port Mixing and Diverting Valves

9102

Order number
1 **9102** 40

HERZ-Hand Wheel for HERZ-Three-Port Mixing and Diverting Valve 4037, not supplied with valve drive.

Adjusting Key

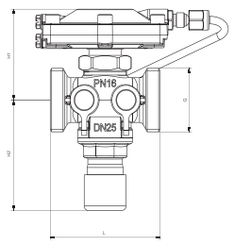
4006

Order number
1 **4006** 02

for HERZ-Flow controller 4001
for HERZ-Differential pressure controller 4002
for HERZ-Combi Valve 4006 / 4206

Pressure Independent Control Valve [PICV]

4006 **4206**



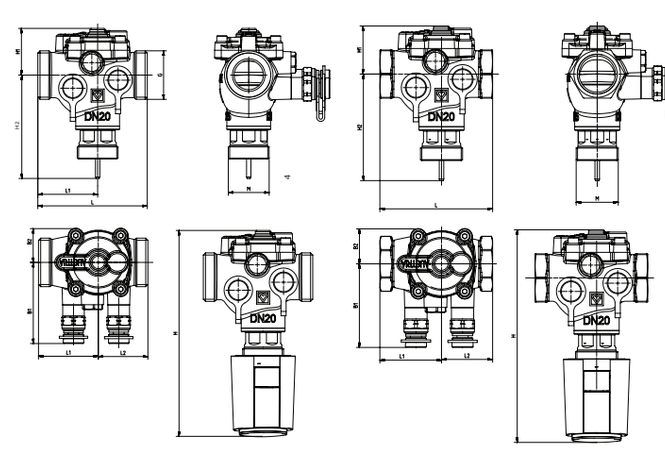
Technical data:

- Min. operating temp.: - 20 °C (frost protection)
- Max. operating temp.: up to 130 °C
- Max. operating pressure: 25 bar
- Lift: 4 mm

Order number Thread (Ext.)	Order number Thread (Int.)	DN	l/h	L	H1	H2	H2 + Actuator	B1	B2	L1	L2	M	Test points
1 **4006** 11	1 **4206** 11	15	40-430	66	59	73	134	49	63	48	81	28 x 1.5	yes
1 **4006** 12	1 **4206** 12	20	80-900	76	60	73	134	51	68.5	48	85	28 x 1.5	yes
1 **4006** 13	1 **4206** 13	25	100-1900	76	60	73	134	51	68.5	48	85	28 x 1.5	yes
1 **4006** 14	1 **4206** 14	32	200-2500	114	76	86	145	76	47	57	89	28 x 1.5	yes
1 **4006** 15	1 **4206** 15	40	400-5000	132	86	95	156	75	47	70	81	28 x 1.5	yes
1 **4006** 16	1 **4206** 16	50	500-5000	140	86	95	156	75	47	70	81	28 x 1.5	yes
1 **4006** 41	1 **4206** 41	15	40-400	66	59	73	134	49	63	48	81	28 x 1.5	no
1 **4006** 42	1 **4206** 42	20	80-900	76	60	73	134	51	68.5	48	85	28 x 1.5	no
1 **4006** 43	1 **4206** 43	25	100-1900	76	60	73	134	51	68.5	48	85	28 x 1.5	no
1 **4006** 44	1 **4206** 44	32	200-2500	114	76	86	145	76	47	57	89	28 x 1.5	no
1 **4006** 45	1 **4206** 45	40	400-5200	132	86	95	156	75	47	70	81	28 x 1.5	no
1 **4006** 46	1 **4206** 46	50	500-5300	140	86	95	156	75	47	70	81	28 x 1.5	no

SMART Pressure Independent Control Valve [PICV]

4006 SMART **4206 SMART**



Technical data:

- Min. operating temp.: - 20 °C (frost protection)
- Max. operating temp.: up to 130 °C
- Max. operating pressure: 25 bar
- Lift: 4 mm

Order number Thread (Ext.)	Order number Thread (Int.)	DN	l/h	L1	L2	B1	B2	H1	H2	H + Actuator	Test points
1 **4006** 30	1 **4206** 20	15LF	7-120	41	34	50	23	35	69	158.8	Yes
1 **4006** 39	1 **4206** 29	15MF	11-190	41	34	50	23	35	69	158.8	Yes
1 **4006** 51	1 **4206** 01	15SF	72-800	41	34	54.6	23.3	32	70.9	157.7	Yes
1 **4006** 91	1 **4206** 91	15SF	72-800	41	34	30.6	23.3	32	70.9	157.7	No
1 **4006** 71	1 **4206** 71	15HF	80-1200	41	34	54.6	23.3	32	70.9	157.7	Yes
1 **4006** 81	1 **4206** 81	15HF	80-1200	41	34	30.6	23.3	32	70.9	157.7	No
1 **4006** 52	1 **4206** 02	20SF	80-1200	41	34	55.6	23.2	32	70.9	157.7	Yes
1 **4006** 92	1 **4206** 92	20SF	80-1200	41	34	31.6	23.2	32	70.9	157.7	No
1 **4006** 72	1 **4206** 72	20HF	108-2000	41	34	55.6	23.2	32	70.9	157.7	Yes
1 **4006** 82	1 **4206** 82	20HF	108-2000	41	34	31.6	23.2	32	70.9	157.7	No

Actuating Drives for 2-point control

7708

Order number	Type	Supply voltage	Dim.	Stroke [mm]	Adapter	Cable	End switch	Actuating force	Power consumption
1 **7708** 52	NC	24V	M28 x 1.5	5	M28 x 1.5 (red)	fix	no	100 N	1 W
1 **7708** 53	NC	230V	M28 x 1.5	5	M28 x 1.5 (red)	fix	no	100 N	1 W
1 **7708** 24	NO	230V	M28 x 1.5	5	M28 x 1.5 (red)	fix	no	100 N	1 W

Order number	Type	Supply voltage	Dim.	Stroke [mm]	Adapter	Cable	End switch	Actuating force	Power consumption
1 **7708** 87	NC	230V	M28 x 1.5	5	M28 x 1.5 (red)	fix	no	100 N	2 W
1 **7708** 68	NC	24V	M28 x 1.5	5	M28 x 1.5 (red)	fix	no	100 N	2 W

DDC Actuating Drives

7990

Order number	Type	Supply voltage	Dim.	Stroke [mm]	Adapter	Cable	End switch	Actuating force	Power cons.
1 **7990** 31	NC	24V control signal 0 - 10 V	M28 x 1.5	5	M28 x 1.5 (blue)	plug-in	no	125 N	1.2 W
1 **7990** 32	NC	24V control signal 0 - 10 V	M28 x 1.5	5	M28 x 1.5 (blue)	plug-in	no	125 N	1.2 W

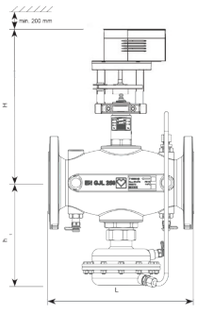
Motoric Actuator with feedback

7708

Order number	Type	Control	Supply voltage	Dim.	Stroke [mm]	Adapter	Actuating force	Valve Characterstic
1 **7708** 40	NC	3-point	24V	M28 x 1.5	8.5	M28 x 1.5 (blue)	200 N	-
1 **7708** 41	NC	3-point	230V	M28 x 1.5	8.5	M28 x 1.5 (blue)	200 N	-
1 **7708** 42	NC	0-10 V DC signal	24V	M28 x 1.5	8.5	M28 x 1.5 (blue)	200 N	Linear
1 **7708** 46	NC	0-10 V DC signal,feed back	24V	M28 x 1.5	8.5	M28 x 1.5 (blue)	200 N	Linear
1 **7708** 48	NC	0-10 V DC signal,feed back, fail safe	24 V	M28 x 1.5	8.5	M28 x 1.5 (blue)	125 N	Linear
5 **7712** 08	NC	0-10 V DC signal	24 V	M28 x 1.5	8.5	M28 x 1.5 (blue)	125 N	Equal %
5 **7712** 48	NC	0-10 V DC signal,feed back, fail safe	24 V	M28 x 1.5	8.5	M28 x 1.5 (blue)	125 N	Equal %
5 **7712** 46	NC	0-10 V DC signal,feed back	24 V	M28 x 1.5	8.5	M28 x 1.5 (blue)	125 N	Equal %

Flanged Flow Controller with integrated Control Valve [PICV]

F 4006



Technical data:

- Diff. pressure across the restrictor: 0,2 bar
- Min. operating temperature: - 20 °C
- Max. operating temperature: 110 °C
- Type of connection: Flanged (EN 1092-2)
- Valve body material: EN-GJL-250
- Gasket material: EPDM
- Cones, stem, seat material CW617N-R320-S, WN1.4305, WN1.4305
- Impulse tupe: WN1.4301
- Diaphragm material: EPDM
- Available in PN16 / PN25 rated models

Order number PN16	DN	Stroke [mm]	min. Flowrate @ 25% [m³/h]	max. Flowrate @ 100% [m³/h]	mind. dp [kPa]	kvs combi valve	H	h1	L
F **4006** 62	50	15	3.75	15	40	23,7	310	210	230
F **4006** 63	65	15	5	20	40	31,6	310	210	290
F **4006** 64	80	20	9	36	40	56,9	395	230	310
F **4006** 65	100	20	10.75	43	40	68,0	395	232	350
F **4006** 66	125	40	25	100	40	158,1	590	410	400
F **4006** 56	125 HF	40	37.5	150	70	179,3	590	410	400
F **4006** 67	150	40	36.25	145	40	229,3	595	425	480
F **4006** 57	150 HF	40	50	200	70	239,0	595	425	480
F **4006** 68	200	40	52.5	210	40	332,0	630	585	600
F **4006** 58	200 HF	40	75	300	70	358,6	630	585	600
F **4006** 48	200 UHF	40	87.5	350	85	379,6	630	585	600
F **4006** 69	250 SF	40	87.5	350	50	495,0	665	620	730
F **4006** 59	250 HF	40	102.50	410	70	490,0	665	620	730

Actuators for control valves, open-close, 3-point (for 2-port, 3-way and PICV)

F 7712

Order number	Nominal voltage	Type	Actuating force	Stroke [mm]	Position indication	Actuating time	Degree of protection IEC/EN
F **7712** 95	AC/DC 24 V	open-close 3-point	500 N	15	mechanical 5 - 15 mm stroke	150 s	IP54
F **7712** 96	AC/DC 24 V	open-close 3-point	1000 N	20	mechanical 5 - 20 mm stroke	150 s	IP54
F **7712** 97	AC/DC 24 V	open-close 3-point	1500 N	20	mechanical 5 - 20 mm stroke	150 s	IP54
F **7712** 98	AC/DC 24 V	open-close 3-point	2500 N	40	mechanical 5 - 40 mm stroke	150 s	IP54
F **7712** 81	AC 230 V	open-close 3-point	500 N	15	mechanical 5 - 15 mm stroke	150 s	IP54
F **7712** 82	AC 230 V	open-close 3-point	1000 N	20	mechanical 5 - 20 mm stroke	150 s	IP54
F **7712** 83	AC 230 V	open-close 3-point	1500 N	20	mechanical 5 - 20 mm stroke	150 s	IP54
F **7712** 84	AC 230 V	open-close 3-point	2500 N	40	mechanical 5 - 40 mm stroke	150 s	IP54
F **7712** 85	AC 230 V	open-close 3-point	12000 N	65 mm	mechanical 5 - 65 mm stroke	0.79 s/mm	IP65

Actuators for control valves, modulating (for 2-port, 3-way and PICV)

7712

Order number	Nominal voltage	Actuating force	Stroke [mm]	Operating time	Degree of protection IEC/EN
1 **7712** 28	230 V / AC	500 N	8- 20	7.5 s / mm	IP54
1 **7712** 29	AC/DC 24 V	500 N	8- 20	7.5/15 s / mm	IP54

7712

HERZ actuator for control valves 24 V AC/DC

Optional 4-20mA feedback and control signal

Order number	Nominal voltage	Actuating force	Stroke [mm]	Operating time	Degree of protection IEC/EN
1 **7712** 30	230 V / AC	1000 N	20	6/12 s / mm	IP54
1 **7712** 31	AC/DC 24 V	1000 N	20	6/4 s / mm	IP54

7712

HERZ actuator for control valves 24 V AC/DC

Control: 2-point, 3-point or continuous
Linear/ equal percentage characteristics
Actuation force 2500 N, stroke 49 mm
Actuation time 2/4/6 s/mm
Two-colour LED display
Automatic adaptation to the stroke of the valve.
Operating voltage 230 V with 230 V module 1 7712 22 possible.

Order number	Nominal voltage	Actuating force	Stroke [mm]	Operating time	Degree of protection IEC/EN
1 **7712** 21	24 V / AC / DC	2500 N	49	2/4/6 s / mm	IP66
1 **7712** 32	24 V / AC / DC	2500 N	49	2/4/6 s / mm	IP66

7712

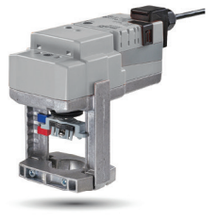
Technical data:

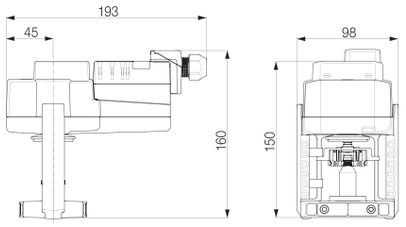
- Operating voltage 24 V, appropriate for AC and DC operation
- Pluggable via M12- and M8- connectors
- Modbus In M12 male, Modbus Out M12 Female
- Only Slave Mode
- For two actuators, thermal on/off or thermal / motoric 0-10V actuators with or without feedback
- Automatic baud rate- detection
- DIP-Switches for setting modbus address 1 to 62, CRC- swapping on/ off, baud rate, parity and termination
- Wide range control registers for setting the converter, the plugged actuators and sensors

Order number	Nominal voltage	Actuating force	Stroke [mm]	Operating time	Degree of protection IEC/EN
1 **7712** 32	24 V / AC / DC	2500 N	49	2/4/6 s / mm	IP66

Actuators for control valves, modulating (for 2-port, 3-way and PICV)

F 7712

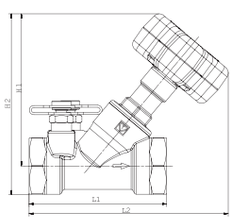


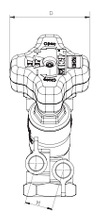


Order number	Nominal voltage	Type	Actuating force	Stroke [mm]	Operating range	Position feedback	Actuating time	Degree of protection IEC/EN
F **7712** 90	AC/DC 24 V	modulating	500 N	15	DC 0 (2) - 10 V	DC 0 (2) - 10 V	150 s	IP54
F **7712** 91	AC/DC 24 V	modulating	1000 N	20	DC 0 (2) - 10 V	DC 0 (2) - 10 V	150 s	IP54
F **7712** 92	AC/DC 24 V	modulating	2500 N	40	DC 0 (2) - 10 V	DC 0 (2) - 10 V	150 s	IP54
F **7712** 93	AC/DC 24 V	modulating	1500 N	10	DC 0 (2) - 10 V	DC 0 (2) - 10 V	150 s	IP54
F **7712** 94	AC 24 V	modulating	12000 N	65	DC 0 (2) - 10 V	DC 0 (2) - 10 V	0.8 s/mm	IP65

Double Regulating Valve [DRV] with two test points

4017 M





Technical data:

- Max. operating temperature: 130 °C
- Max. operating pressure: 20 bar
- Max. differential pressure at closed valve: 10 bar
- Body: DZR
- Non-rising stem sealed with Double-O-Ring
- Presetting through stroke limiting, handwheel with presetting digital display

Order number	DN	L1	L2	H1	H2	M	D	Kvs valve	Kvs Orifice
1 **4017** 11	15 LF	83	129	96	109	25	70	0.46	0.48
1 **4017** 21	15 MF	83	129	96	109	25	70	0.88	0.97
1 **4017** 01	15	83	129	96	109	25	70	2.00	1.95
1 **4017** 02	20	91	135	99	115	25	70	3.60	3.95
1 **4017** 03	25	110	146	109	130	25	70	6.50	7.90
1 **4017** 04	32	122	159	117	142	25	70	13.30	15.75
1 **4017** 05	40	135	178	136	163	25	70	18.50	21.50
1 **4017** 06	50	164	197	140	175	25	70	33.00	46.70

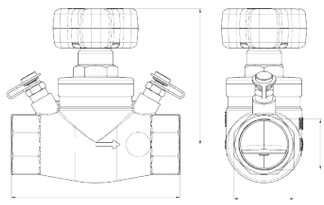
Double Regulating Valve [DRV] with capillary connection

4017 ML

Order number	DN	L1	L2	H1	H2	M	D	Kvs valve	Kvs Orifice
1 **4017** 30	15 LF	83	129	96	109	25	70	0.46	0.48
1 **4017** 39	15 MF	83	129	96	109	25	70	0.88	0.97
1 **4017** 31	15	83	129	96	109	25	70	2.00	1.95
1 **4017** 32	20	91	135	99	115	25	70	3.60	3.95
1 **4017** 33	25	110	146	109	130	25	70	6.50	7.90
1 **4017** 34	32	122	159	117	142	25	70	13.30	15.75
1 **4017** 35	40	135	178	136	163	25	70	18.50	21.50
1 **4017** 36	50	164	197	140	175	25	70	33.00	46.70

Variable Orifice Double Regulating Valve [DRV], Straight model

4217 GM STRÖMAX 4217 GR STRÖMAX

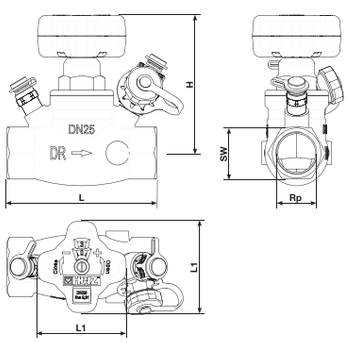


Description:
Dezincification-resistant brass, non-rising spindle, socket x socket, spindle sealing with double O-ring. Linear characteristic graph. Pre-setting via stroke limitation, digital display of the pre-setting in the hand wheel window. Pre-setting tampering seal 1 **6517** 04 and pre-setting marker 1 **6517** 05 are included.
Max. oper. temp.: to DN 32 130°C from DN 40 110°C
Max. oper. pressure: 16 bar
Test points for 4217 GM

4217 GM	41217 GR	DN	Rp	L	L1	H	SW hexagon	SW octagon	Kvs
1 **4217** 30	-	15 LF	1/2	100	71	97	27	-	0.93
1 **4217** 31	-	15 MF	1/2	100	71	97	27	-	3.49
1 **4217** 01	1 **4217** 61	15	1/2	100	71	97	27	-	6.05
1 **4217** 32	1 **4217** 62	20	3/4	100	71	97	32	-	6.11
1 **4217** 33	1 **4217** 63	25	1	120	71	107	41	-	9.22
1 **4217** 34	1 **4217** 64	32	1 1/4	140	71	112	-	50	18.83
1 **4217** 35	1 **4217** 65	40	1 1/2	150	71	112	-	55	23.29
1 **4217** 36	1 **4217** 66	50	2	165	110	136	-	70	35.26
1 **4217** 07	1 **4217** 67	65	2 1/2	190	110	141	-	85	52.11
1 **4217** 08	1 **4217** 68	80	3	210	110	142	-	100	76.10

Variable Orifice Double Regulating Valve [DRV], Straight model with capillary connection

4217 GML STRÖMAX



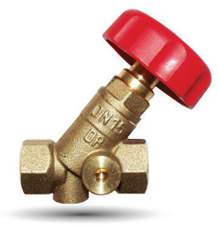
Description:
Dezincification-resistant brass, non-rising spindle, socket x socket, spindle sealing with double O-ring. Linear characteristic graph. Pre-setting via stroke limitation, digital display of the pre-setting in the hand wheel window. Pre-setting tampering seal 1 **6517** 04 and pre-setting marker 1 **6517** 05 are included.
Adapters and compression adapters must be ordered separately.
Max. operating temperature: to DN 32 130°C from DN 40 110°C
Max. operating pressure: 16 bar

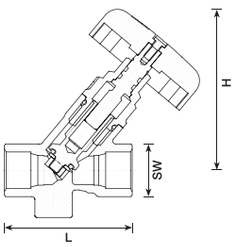
Order number	DN	Rp	L	L1	H	SW hexagon	SW octagon	Kvs
1 **4217** 10	15 LF	1/2	100	71	97	27	-	0.93
1 **4217** 19	15 MF	1/2	100	71	97	27	-	3.49
1 **4217** 11	15	1/2	100	71	97	27	-	6.05
1 **4217** 12	20	3/4	100	71	97	32	-	6.11
1 **4217** 13	25	1	120	71	107	41	-	9.22
1 **4217** 14	32	1 1/4	140	71	112	-	50	18.83
1 **4217** 15	40	1 1/2	150	71	112	-	55	23.29
1 **4217** 16	50	2	165	110	136	-	70	35.26
1 **4217** 17	65	2 1/2	190	110	141	-	85	52.11
1 **4217** 18	80	3	210	110	142	-	100	76.10

Inclined Shut-off Valve With Non-Rising Spindle

4125 STRÖMAX-D

4125 STRÖMAX-AD WITH BORES FOR DRAINING





Order number		DN	Rp	L	H	SW hexagon	SW octagon	Kvs
1 **4125** 61	1 **4125** 71	15	1/2	65	86	27	-	4.8
1 **4125** 62	1 **4125** 72	20	3/4	75	92	32	-	11.5
1 **4125** 63	1 **4125** 73	25	1	90	105	41	-	21.5
1 **4125** 64	1 **4125** 74	32	1 1/4	110	118	-	50	35.0
1 **4125** 65	1 **4125** 75	40	1 1/2	120	127	-	55	48.0
1 **4125** 66	1 **4125** 76	50	2	150	155	-	70	82.0
1 **4125** 67	1 **4125** 77	65	2 1/2	180	205	-	85	127.0
1 **4125** 68	1 **4125** 78	80	3	210	226	-	100	183.0

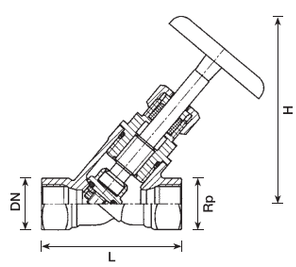
Technical data:

- Max. operation temperature: 110°C
- Max. operation pressure: 20 bar
- Max. differential pressure on closed seat: 10 bar
- Body: casted DZR brass CC752S
- Upper part: DZR brass CW602N
- Cone: DZR brass CW602N
- Spindle brass CW617N
- Sealing: EPDM
- Hand wheel: Polyamide
- Drain possibility: 1 **4125** 71-78

Inclined Shut-off Valve With Rising Spindle

4115 STRÖMAX

4115 STRÖMAX-A WITH BORES FOR DRAINING



Order number		DN	Rp	L	H_{open}	Kvs
1 **4115** 00	-	10	3/8	60	85	3.0
1 **4115** 01	1 **4115** 11	15	1/2	65	90	4.0
1 **4115** 02	1 **4115** 12	20	3/4	75	115	10.5
1 **4115** 03	1 **4115** 13	25	1	90	130	18.0
1 **4115** 04	1 **4115** 14	32	1 1/4	110	156	32.5
1 **4115** 05	1 **4115** 15	40	1 1/2	120	175	44.0
1 **4115** 06	1 **4115** 16	50	2	150	215	82.0
1 **4115** 07	1 **4115** 17	65	2 1/2	180	297	127.0
1 **4115** 08	1 **4115** 18	80	3	210	325	183.0

Technical data:

- Max. operation temperature: 110°C
- Max. operation pressure: 20 bar
- Max. differential pressure on closed seat: 10 bar
- Body: casted DZR brass CC752S
- Upper part: DZR brass CW602N
- Cone: DZR brass CW602N
- Spindle: brass CW617N
- Sealing: EPDM
- Hand wheel: sheet steel
- Drain possibility: 1 **4115** 11-18

Circuit Regulating Valves for Differential Pressure Measurement, flanged version

4218 GF

STRÖMAX-GF-circuit regulating valve with test points, DN 50 - 300 Screw-down model, grey cast iron body GJL 250 acc. EN 1561, flange acc. EN 1092, PN 16, blue enamel coating. Upper part grey cast iron GJL 250, with non-rising spindle, spindle seal by means of triple O-Ring. Presetting step is shown on the digital display. For DN 350 and above body of spheroidal graphite iron GJS 400-15, flange acc. to EN 1092, PN 16, PN 25, painted blue.

Order number PN16	DN	L	H1	H2	D	Kvs	
1 **4218** 80	50	230	169	252	150	34.96	16.8
1 **4218** 81	65	290	186	280	150	66.94	23.6
1 **4218** 82	80	310	208	308	175	106.78	30
1 **4218** 83	100	350	235	345	175	169.45	38
1 **4218** 84	125	400	260	385	265	255.79	63
1 **4218** 85	150	480	308	451	265	389.54	88
1 **4218** 86	200	600	449	619	450	676.33	161
1 **4218** 87	250	730	503	705	450	1082.72	256
1 **4218** 88	300	852	562	842	450	1784.91	383
1 **4218** 89	350	980	758	1021	520	2917.6	536
1 **4218** 90	400	1100	805	1103	580	3854.8	547
1 **4218** 92	500	1250	1051	1413	715	5250.6	968

***PN25 models available on request**

STRÖMAX-AGF-Shutoff Valve, flanged version

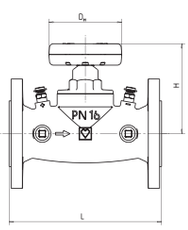
4218 AGF

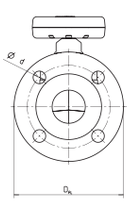
Order number PN16	Order number PN25	DN	Dim.	Kvs
1 **4218** 53	1 **4220** 53	25	1	11.0
1 **4218** 54	1 **4220** 54	32	1 1/4	20.1
1 **4218** 55	1 **4220** 55	40	1 1/2	30.4
1 **4218** 56	1 **4220** 56	50	2	36.9
1 **4218** 57	1 **4220** 57	65	2 1/3	62.5
1 **4218** 58	1 **4220** 58	80	3	75.0

Body made of cast iron GJL 250 according to EN 1561, flange according to EN 1092, PN 16, PN 25; length according to ÖNORM EN-558-1, basic series 1, blue enamel coating. Valve upper part made of brass. Non-rising spindle, spindle seal by means of double O-Ring. A permanently elastic soft seal is used as a seat seal.

4218 GMF STRÖMAX-GMF circuit regulating valve with test points DN 50 - 150

4218 GMF



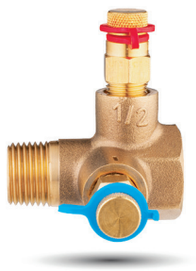


Order number PN16	Order number PN25	DN	L	H	DH	Kvs
1 **4218** 46	1 **4220** 46	50	230	135	110	37.84
1 **4218** 47	1 **4220** 47	65	290	145	110	60.3
1 **4218** 48	1 **4220** 48	80	310	145	110	67.8
1 **4218** 49	1 **4220** 49	100	350	190	190	99.55
1 **4218** 50	1 **4220** 50	125	400	230	190	186.58
1 **4218** 51	1 **4220** 51	150	480	264	190	279.05

Screw-down model, body made of cast iron GJL 250, according to EN 1561, flange according to EN 1092, PN 16, PN 25, blue coating. Brass upper part, screwed, with non-rising spindle, spindle seal by means of double O-Ring. Presetting by limitation of valve lift and inside spindle. Pre-setting step is shown on the digital display in the hand wheel window. Two quick measuring valves are mounted next to hand wheel. Four bores for draining fittings, closed with screw plugs 3/8 (DN10).

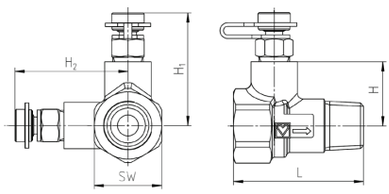
Metering Station with two test points

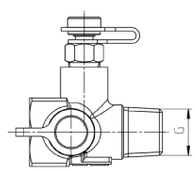
4000



Specifications:

- Stainless steel disc with extended test points
- Maximum working temperature 120 °C
- Kv-values, also pressure and temperature ratings, comply with requirements of BS7350
- Kv-values in m3/hour at a pressure drop of 1 bar





Order number	DN	G	L	H1	H2, H3	SW	Kvs	PN
1 **4000** 11	15 LF	1/2	56	27.5	52	29	0.55	20
1 **4000** 21	15 MF	1/2	56	27.5	52	29	1.10	20
1 **4000** 01	15	1/2	56	27.5	52	29	2.20	20
1 **4000** 02	20	3/4	58	30	54.5	36	4.25	20
1 **4000** 03	25	1	64	33	57.5	43	8.60	20
1 **4000** 04	32	1 1/4	72	38.5	63	53	15.90	20
1 **4000** 05	40	1 1/2	72	40	64.5	61	23.70	20
1 **4000** 06	50	2	80	45	69.5	72	48.00	20

Flow Measuring Orifice Plate

4000

Order number PN16	Order number PN25	Pipe Size Inch	DN	A	B	Weight Kg	Flow Kv	Kvs
1 **4000** 31	5 **4000** 41	2.5″	65	129	18	1.3	151	88
1 **4000** 32	5 **4000** 42	3″	80	144	18	1.6	224	122
1 **4000** 33	5 **4000** 43	4″	100	164	18	1.8	368	218
1 **4000** 34	5 **4000** 44	5″	125	194	18	2.4	566	340
1 **4000** 35	5 **4000** 45	6″	150	220	18	2.8	790	468
1 **4000** 36	5 **4000** 46	8″	200	275	18	3.9	1386	798
1 **4000** 37	5 **4000** 47	10″	250	330	18	5.2	2120	1220
1 **4000** 38	5 **4000** 48	12″	300	386	18	6.5	3116	1800
1 **4000** 39	5 **4000** 49	14″	350	446	20	11.4	2748	1782
1 **4000** 40	5 **4000** 50	16″	400	498	20	13.2	3560	2328
1 **4000** 41	5 **4000** 51	18″	450	558	22	17.7	4571	2970
1 **4000** 42	5 **4000** 52	20″	500	620	22	22.1	5676	3692
1 **4000** 43	5 **4000** 53	24″	600	737	25	33.9	8223	4480

Foot valve with stainless steel filter

Technical data:

- Operating pressure: depending on dimension, see table above
- Operating temperature range: -10°C to 110°C (water 0.5°C - 95°C, no steam)
- Medium: water, compressed air, etc. (non-agressive mediums)

Order number	DN	PN
I **0237** 01	15	16
I **0237** 02	20	16
I **0237** 03	25	16
I **0237** 04	32	16
I **0237** 05	40	16
I **0237** 06	50	16
I **0237** 07	65	06
I **0237** 08	80	06
I **0237** 09	100	06

Measuring valves

0284

Order number	Dim.
1 **0284** 01	1/4

Test points for HERZ-STRÖMAX-Circuit regulating valves (manufactured from 2004), brass version, blue cap (return) for flow computer.

Order number	Dim.
2 **0284** 01	1/4

Test points for HERZ-STRÖMAX-TW-Circuit regulating valves Brass version, blue cap (return) for flow computer, valves are marked in green (for drinking water).

Order number	Dim.
1 **0284** 11	1/4

Test points for HERZ-STRÖMAX-Circuit regulating valves Brass version, blue cap (return) for flow computer. Extended model for insulated valves.

Order number	Dim.
1 **0284** 21	1/4

Test points with draining function Brass version, blue cap, with swivel hose connection. Test point for flow computer.

Order number	Dim.
1 **0284** 23	1/4

Extended test point, drain function, blue cap.

Order number	Dim.
1 **0284** 03	1/4

Test points with capillary connection brass version, blue cap (return).

Order number	Dim.
1 **0284** 02	1/4

Test points for HERZ-STRÖMAX-Circuit regulating valves (manufactured in 2004 or later), brass version, red cap (flow) for flow computer.

Order number	Dim.
2 **0284** 02	1/4

Test points for HERZ-STRÖMAX-TW-Circuit regulating valves Brass version, red cap (flow) for flow computer, valves are marked in green (for drinking water).

Order number	Dim.
1 **0284** 12	1/4

Test points for HERZ-STRÖMAX-Circuit regulating valves. Brass version, red cap (flow) for flow computer. Extended model for insulated valves.

Order number	Dim.
1 **0284** 22	1/4

Test points with draining function Brass version, red cap, with swivel hose connection. Test point for fl ow computer.

Order number	Dim.
1 **0284** 24	1/4

Extended test point, drain function, red cap.

Order number	Dim.
1 **0284** 04	1/4

Test points with capillary connection brass version, red cap (supply).

Accessories for Measuring Computer

0284

1 0284 00 Test point adapters

Order number
1 **0284** 00

1 0284 10 Measuring valve
1 set = 2 pieces.

Order number
1 **0284** 10

8900

Filter replacement set and seals
Set contains of 2 filters and 2 sealings for measuring hoses to measuring computer 1 8900 04.

Order number
1 **8900** 10

Capillary for Differential Pressure Controllers 4007

4002, 4007

Ball valve with nipple

Order number	Dim.
1 **4007** 78	1/8

Capillary for Differential Pressure Controller with ball valve 1/8

Order number	Length
1 **4002** 78	1.0 m

4002, 4007

Capillary for Differential Pressure Controller
with screw plug G 1/4 and nipples 1/8 G x 1/4 G

Order number	Length
1 **4007** 79	1.0 m
1 **4007** 80	1.5 m
1 **4002** 80	2.0 m

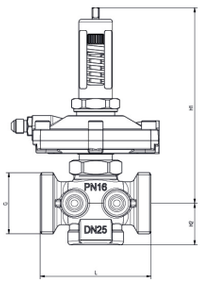
4218 GF

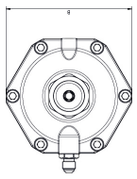
Spare parts set for 4218 GF

Order number	DN
1 **4218** 22	50-65
1 **4218** 23	80-100
1 **4218** 24	125-150
1 **4218** 25	200-250
1 **4218** 26	300

Differential Pressure Controller [DPCV]

4002





Materials:

- Body: DZR brass
- Membranes and O-Rings: EPDM

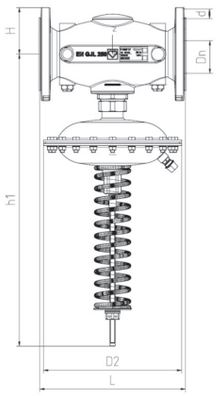
Technical data:

- Max. operating pressure: 16 / 25 bar
- Min. operating temp.: - 20 °C
- Max. operating temp.: 120 °C

Order number	Regulating range	DN	G	MT/FT	L	H1	H2	B	B1	B2
1 **4002** 41	05-30 kPa	15	3/4 G	MT	66	133	28	94	26	31
1 **4002** 42	05-30 kPa	20	1 G	MT	76	134	29	94	28	33
1 **4002** 43	05-30 kPa	25	5/4 flatsealing	MT	76	134	29	94	28	33
1 **4002** 44	05-30 kPa	32	1 1/2 flatsealing	MT	114	150	47	94	32	32
1 **4002** 45	05-30 kPa	40	1 3/4 flatsealing	MT	132	160	58	94	41	41
1 **4002** 46	05-30 kPa	50	2 3/8 flatsealing	MT	140	160	58	94	41	41
1 **4002** 61	25-60 kPa	15	3/4 G	MT	66	133	28	94	26	31
1 **4002** 62	25-60 kPa	20	1 G	MT	76	134	29	94	28	33
1 **4002** 63	25-60 kPa	25	5/4 flatsealing	MT	76	134	29	94	28	33
1 **4002** 64	25-60 kPa	32	1 1/2 flatsealing	MT	114	150	47	94	32	32
1 **4002** 65	25-60 kPa	40	1 3/4 flatsealing	MT	132	160	58	94	41	41
1 **4002** 66	25-60 kPa	50	2 3/8 flatsealing	MT	140	160	58	94	41	41
1 **4002** 31	50-150 kPa	15	3/4 lat sealing	MT	66	133	28	94	26	31
1 **4002** 32	50-150 kPa	20	1lat sealing	MT	76	134	29	94	28	33
1 **4002** 33	50-150 kPa	25	5/4 lat sealing	MT	90	134	29	94	28	33
1 **4002** 34	50-150 kPa	32	1 1/2 lat sealing	MT	114	150	47	94	32	32
1 **4002** 35	50-150 kPa	40	1 3/4 lat sealing	MT	132	160	57	94	41	41
1 **4002** 36	50-150 kPa	50	2 3/8 lat sealing	MT	140	160	57	94	41	41
1 **4202** 41	05-30 kPa	15	1/2	FT	66	133	28	94	26	31
1 **4202** 42	05-30 kPa	20	3/4	FT	76	134	29	94	28	33
1 **4202** 43	05-30 kPa	25	1	FT	90	134	29	94	28	33
1 **4202** 44	05-30 kPa	32	5/4	FT	114	150	46	94	32	32
1 **4202** 45	05-30 kPa	40	1 1/2	FT	132	160	57	94	41	41
1 **4202** 46	05-30 kPa	50	2	FT	140	160	57	94	41	41
1 **4202** 61	25-60 kPa	15	1/2	FT	66	133	28	94	26	31
1 **4202** 62	25-60 kPa	20	3/4	FT	76	134	29	94	28	33
1 **4202** 63	25-60 kPa	25	1	FT	90	134	29	94	28	33
1 **4202** 64	25-60 kPa	32	5/4	FT	114	150	46	94	32	32
1 **4202** 65	25-60 kPa	40	1 1/2	FT	132	160	57	94	41	41
1 **4202** 66	25-60 kPa	50	2	FT	140	160	57	94	41	41
1 **4202** 31	50-150 kPa	15	1/2	FT	66	133	28	94	26	31
1 **4202** 32	50-150 kPa	20	3/4	FT	76	134	29	94	28	33
1 **4202** 33	50-150 kPa	25	1	FT	90	134	29	94	28	33
1 **4202** 34	50-150 kPa	32	5/4	FT	114	150	47	94	32	32
1 **4202** 35	50-150 kPa	40	1 1/2	FT	132	160	57	94	41	41
1 **4202** 36	50-150 kPa	50	2	FT	140	160	57	94	41	41

Differential Pressure Controller, flanged version

F 4007 01 - 08



Order number	DN	L [mm]	h1 [mm]	H [mm]	d [mm]	D2 [mm]	dp setting range [kPa]
F **4007** 26	50	230	566	82	19	156	50-150
F **4007** 07	65	290	581	93	19	275	10-40
F **4007** 17	65	290	567	93	19	156	20-80
F **4007** 27	65	290	567	93	19	156	50-150
F **4007** 38	80	310	603	113	19	275	20-80
F **4007** 08	80	310	603	113	19	275	10-40
F **4007** 18	80	310	588	113	19	156	20-80
F **4007** 28	80	310	588	113	19	156	50-150
F **4007** 09	100	350	603	112	19	275	10-40
F **4007** 19	100	350	603	112	19	275	20-80
F **4007** 29	100	350	588	112	19	156	50-150
F **4007** 20	125	400	727	181	19	275	20-80
F **4007** 30	125	400	727	181	19	275	50-150
F **4007** 21	150	480	721	185	23	275	20-80
F **4007** 31	150	480	721	185	23	275	50-150
F **4007** 32	200	600	708	222	23	275	50-150

Technical data:

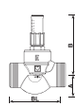
- Max. working pressure: 16 bar
- Testing pressure: 25 bar
- Max. allowed working temperature: 110 °C
- Min. working temperature: -10 °C

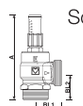
Materials:

- Valve body material: EN-GJL-250 acc. to EN 1561
- Type of connection: Flange (EN 1092-2)
- Diaphragm: EPDM with textil
- O-Ring: EPDM
- Spring: EN 10270-1-SH

Differential Pressure Overflow Valve, Straight Model

4004





One-part metal body, nickel-plated model;
for flat-sealing screw connection of choice.
Screw connections must be ordered separately.

Order number	Dim.	Model	Threaded connection	A	B	BL	BL1	BL2	Kvs
1 **4004** 31	DN 15	straight	G 3/4 B ISO 228/1	26	82	69.5	-	-	2.2
1 **4004** 32	DN 20	straight	G 1 B ISO 228/1	26	82	75	-	-	2.2
1 **4004** 41	DN 15	angle	G 3/4 B ISO 228/1	101	-	-	32	25	2.2
1 **4004** 42	DN 20	angle	G 1 B ISO 228/1	111	-	-	34	34.5	2.2

Measuring Computer

8900

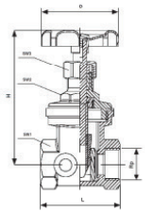
1 **8900** 04 **Measuring computer for differential pressure**

Electronic differential pressure gauge for one-handed operation with integral pressure transducer for the measurement at balancing valves with direct display and display of fl ow and the differential pressure. Measuring range 0–10 bar, max. Pressure 12 bar, connection for printer or PC via USB interface, IP 65, recording memory for 20,000 measure ments. Delivered with accessories: 2 measuring hoses with quick-on stops and fi lter hose adapter, software and user manual on CD, measuring set 1 0284 00 and extension lead for measuring valve 1 0284 10 Power supply Li/ion battery, operation time 12 hrs. It is recommended to provide annual maintenance and calibration!

Power supply	Display	Software	Data memory	Temperature	Measuring range	Calibration	Verification	Measurement method
3V Li/ion battery 950 mAhrs, 12 hrs operating time, 1 year Stand-By, charging with supply unit 230 V~ or USB port	44x33 mm, il-luminated, 240x320 pixel RGB, 65k colors	Update only by manufac-turer	20000 measure-ments can be stored	**Ambient:** -5 - 50 °C **Medium:** -5 - 90 °C **Storage:** -5 - +50 °C hoses can freeze	**Max. pressure:** 12 bar **Differential pressure:** 10 bar **Static pressure:** n.a.	once daily before the measure-ments, done by pressing the „ZERO“ key without connected test hoses	possible and recom-mended by manufacturer, validity 1 year	Output flow rate and dp, valve type, settings, medium

Gate Valve with non-rising spindle

4113



Materials:

- Body: DZR (CW 602N)
- Upper part: DZR (CW 602N)
- Handwheel: sheet steel, coated
- Sealing: EPDM

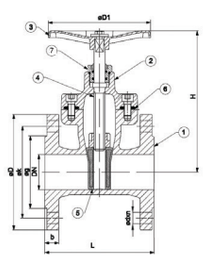
Technical data:

- Max. operating temperature: 120°C
- Connection thread: ISO 7-1 Rp
- PN20 rated

Order number (Handwheel)	Order number (Lockshield)	DN	Rp	SW1	SW2	SW3	D	H	L
1 **4113** 11	1 **4113** 41	15	1/2	27	21	15	50	85	49.4
1 **4113** 12	1 **4113** 42	20	3/4	32	21	15	50	89.5	52.4
1 **4113** 13	1 **4113** 43	25	1	39	26	15	60	105.9	61
1 **4113** 14	1 **4113** 44	32	1 1/4	49	37	15	60	126	69.6
1 **4113** 15	1 **4113** 45	40	1 1/2	55	41	21	80	143.4	74
1 **4113** 16	1 **4113** 46	50	2	68	41	25	105	176.5	89

Gate Valve flanged version

4113



Materials:

- PN16: Body & Bonnet: GG25
- PN25: Body & Bonnet: GGG40
- Handwheel (3): GG25
- Stem (4): Stainless steel
- Wedge (5): GGG40 rubber plated
- Gasket (6): EPDM
- Gland (7): Brass CW617

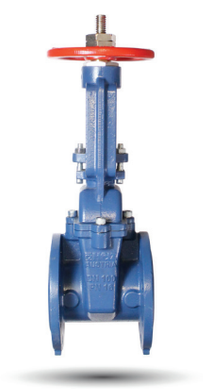
Specifications:

- Temperature range: - 10 °C to 110 °C
- Flange dim. according to EN1092-2
- Design standard EN1171

Order number PN16	Order number PN25	DN	PN	L	H	
4 **4113** 21	5 **4113** 31	65	16	170	230	15
4 **4113** 22	5 **4113** 32	80	16	180	245	17
4 **4113** 23	5 **4113** 33	100	16	190	265	23
4 **4113** 24	5 **4113** 34	125	16	200	355	37
4 **4113** 25	5 **4113** 35	150	16	210	400	45
4 **4113** 26	5 **4113** 36	200	16	230	490	80
4 **4113** 27	5 **4113** 37	250	16	250	615	123
4 **4113** 28	5 **4113** 38	300	16	270	70	166
4 **4113** 29	5 **4113** 39	350	16	290	835	225
4 **4113** 30	5 **4113** 40	400	16	310	910	290
4 **4113** 31	5 **4113** 41	450	16	330	1000	400
4 **4113** 32	5 **4113** 42	500	16	350	1135	460
4 **4113** 33	5 **4113** 43	600	16	390	1300	680

OS&Y Gate Valve

4113



Order number	DN	L	H	D
4 **4113** 51	65	170	390 - 475	51
4 **4113** 52	80	180	425 - 525	70
4 **4113** 53	100	190	485 - 600	114
4 **4113** 54	125	200	584 - 735	197
4 **4113** 55	150	210	655 - 835	271
4 **4113** 56	200	230	796 - 1020	349
4 **4113** 57	250	250	970 - 1245	449
4 **4113** 58	300	270	1110 - 1440	994
4 **4113** 59	350	290	1280 - 1660	1566
4 **4113** 60	400	310	1400 - 1830	2461
4 **4113** 61	450	330	1550 - 2100	3186
4 **4113** 62	500	350	1550 - 2100	3245
4 **4113** 63	600	390	1940 - 2590	3846

Materials:

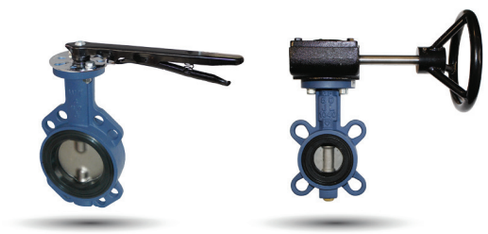
- Body: Cast iron, GG25-EN GJL 250
- Bonnet: Cast iron, GG25-EN GJL 250
- Handwheel: Cast iron, GG25-EN GJL 250
- Stem: Stainless Steel AISI420
- Wedge: Rubber Coated Ductile Iron, GGG 40-EN GJS 400-15
- Gasket: EPDM-NBR

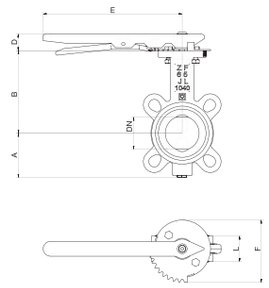
Technical data:

- Nominal pressure: 16 bar
- Working temperature: -10° to 120°C

Butterfly Valve, semi lugged version

4219 ZF





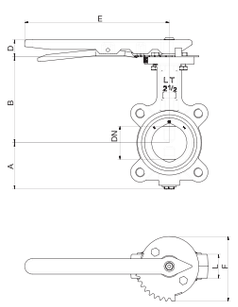
Materials:

- Housing: GG, GJL-250/JL1040, according to EN1561
- Disc: stainless steel 1.4408
- Spindle: stainless steel ASTM-A276 / Type 316
- Lever DN50-150: steel, ST14.03
- Gear DN200-600: steel, S235 DIN2458/1626
- Houisng sealing: EPDM according to ISO 1691
- O-Ring: EPDM according to ISO 1691
- Flange: according to EN1092-2
- Available in PN16/PN25 rated models

Order number	DN	PN16	A	B	L	D	E	F		Torque
1 **4219** 01	50	+	68	125	43	30	255	112	3.8	20
1 **4219** 02	65	+	80	150	46	30	255	112	4	20
1 **4219** 03	80	+	87	157	46	30	255	112	4.7	25
1 **4219** 04	100	+	102	182	52	30	255	112	6.3	50
1 **4219** 05	125	+	120	201	56	30	255	112	8.3	50
1 **4219** 06	150	+	132	214	56	30	255	112	10.1	90
1 **4219** 07	200	+	167	245	60	95	365	88	16.6	150
1 **4219** 08	250	+	197	283	68	133	519	130	24.5	250
1 **4219** 09	300	+	222	308	78	133	519	130	37.6	350
4 **4219** 10	350	+	277	388	92	-	-	-	49	510
4 **4219** 11	400	+	308	416	102	-	-	-	90	630
4 **4219** 12	450	+	342	455	114	-	-	-	110	690
4 **4219** 13	500	+	374	490	127	-	-	-	150	860
4 **4219** 14	600	+	459	562	154	-	-	-	242	1035

Butterfly Valve, fully lugged version

4219 AF



Materials:

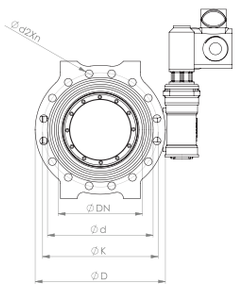
- Housing: GGG, GJS-400-15/JS1030, according to EN1563
- Disc: stainless steel 1.4408
- Spindle: stainless steel ASTM-A276 / Type 316
- Lever DN50-150: steel, ST14.03
- Gear DN200-600: steel, S235 DIN2458/1626
- Houisng sealing: EPDM according to ISO 1691
- O-Ring: EPDM according to ISO 1691
- Available in PN16/PN25 rated models

Order number	DN	PN16	A	B	L	D	E	F		Torque
1 **4219** 11	50	+	68	125	43	30	255	112	3.8	20
1 **4219** 12	65	+	80	150	46	30	255	112	4	20
1 **4219** 13	80	+	87	157	46	30	255	112	4.7	25
1 **4219** 14	100	+	102	182	52	30	255	112	6.3	50
1 **4219** 15	125	+	120	201	56	30	255	112	8.3	50
1 **4219** 16	150	+	132	214	56	30	255	112	10.1	90
1 **4219** 17	200	+	167	245	60	95	365	88	16.6	150
1 **4219** 18	250	+	207	283	68	133	519	130	24.5	250
1 **4219** 19	300	+	222	308	78	133	519	130	37.6	350
4 **4219** 30	350	+	277	388	92	-	-	-	49	510
4 **4219** 31	400	+	308	416	102	-	-	-	90	630
4 **4219** 32	450	+	342	455	114	-	-	-	110	690
4 **4219** 33	500	+	374	490	127	-	-	-	150	860
4 **4219** 34	600	+	459	562	154	-	-	-	242	1035

from DN700 and above, available on request

Double Eccentric Butterfly Valve

4219



Technical data:

- Nominal pressure: 16/25 bar
- Min. operating temperature: -10°C
- Max. operating temperature: +90°C
- Design: EN593
- Face to Face: EN558-1
- Flanged Connection: EN1092-2
- Casting standard: EN1563: 2011(EN)

Order number PN16	Order number PN 25	DN	ØD	ØK	Ød	C	d2xn
4 **4219** 51	5 **4219** 71	100	220	180	156	19	19x8
4 **4219** 52	5 **4219** 72	125	250	210	185	19	19x8
4 **4219** 53	5 **4219** 73	150	285	240	211	19	23x8
4 **4219** 54	5 **4219** 74	200	340	295	266	20	23x12
4 **4219** 55	5 **4219** 75	250	405	355	319	22	28x12
4 **4219** 56	5 **4219** 76	300	460	410	370	24	28x12
4 **4219** 57	5 **4219** 77	350	520	470	429	26	28x16
4 **4219** 58	5 **4219** 78	400	580	525	480	28	31x16
4 **4219** 59	5 **4219** 79	450	640	585	548	30	31x20
4 **4219** 60	5 **4219** 80	500	715	650	609	31	34x20
4 **4219** 61	5 **4219** 81	600	840	770	720	36	37x20
4 **4219** 62	5 **4219** 82	700	910	840	794	39	37x24
4 **4219** 63	5 **4219** 83	800	1025	950	901	43	41x24
4 **4219** 64	5 **4219** 84	900	1125	1050	1001	46	41x28
4 **4219** 65	5 **4219** 85	1000	1255	1170	1112	50	44x28
4 **4219** 66	5 **4219** 86	1100	1355	1270	1218	53	44x32
4 **4219** 67	5 **4219** 87	1200	1485	1390	1328	57	50x32

Materials:

- Body: Ductile iron EN-GJS 400(GGG40)
- Disc: Ductile iron EN-GJS 400/500(GGG40/GGG50)
- Retaining ring: Stainless Steel SS37/SS304
- Disc Gasket: EPDM X20CR13 / 316L
- Bolt: Stainless Steel
- Setscrew: Stainless Steel
- Stem: Stainless Steel
- Bush: Bronze
- Cover: Ductile iron EN-GJS 500(GGG500)
- O-Ring: EPDM

Check Valve

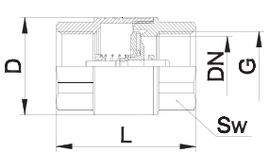
2622

Materials:

- Body: forged brass (CW617N) acc. EN 12420
- Seat: brass (CW614N) acc. EN 12164
- Holder: brass (CW614N) acc. EN 12164
- Spindle: brass (CW614N) acc. EN 12164
- Sealing: EPDM
- Spring: stainless steel (AISI 302) 1.4310
- Connections: female thread acc. ISO228

Technical data:

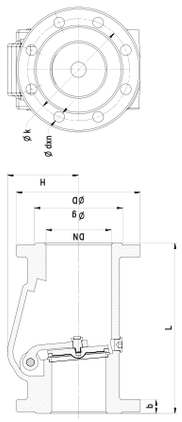
- Operating pressure: depending on dimension, see table above
- Operating temperature range: -10 °C up to 120°C (water 0.5°C - 95°C, no steam)
- Medium: water, compressed air, etc. (non-agressive mediums)



Order number	PN	DN	G	L	D	SW	Kvs	W
1 **2622** 41	25	15	1/2	47	29	25	2.9	0.104
1 **2622** 42	25	20	3/4	52	38	31	6.0	0.174
1 **2622** 43	25	25	1	62	48	38	10.2	0.285
1 **2622** 44	25	32	1 1/4	65	56	47	14.4	0.404
1 **2622** 45	25	40	1 1/2	73	69	54	26.2	0.698
1 **2622** 46	25	50	2	80	53	66	38	0.988

Swing Check Valve

2622



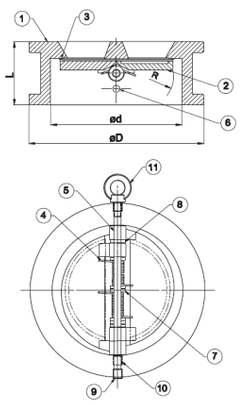
Order number PN16	DN	L	D	k	g	b
4 **2622** 20	50	180	165	125	99	20
4 **2622** 21	65	240	185	145	118	20
4 **2622** 22	80	260	200	160	132	22
4 **2622** 23	100	300	220	180	156	24
4 **2622** 24	125	350	250	210	184	26
4 **2622** 25	150	400	285	240	211	26
4 **2622** 26	200	500	340	295	266	20
4 **2622** 27	250	600	405	355	319	22
4 **2622** 28	300	700	460	410	370	25
4 **2622** 89	350	800	520	470	429	26,5
4 **2622** 90	400	900	580	525	480	28
4 **2622** 91	450	1000	640	585	548	30
4 **2622** 92	500	1100	715	650	609	31,5
4 **2622** 93	600	1300	840	770	720	36

Technical data:

- Temperature range: -10°C to +110°C
- Pressure rate: PN16 / PN25
- Flange Dimensions according to EN1092-2
- Design standard EN 12334
- Coating painted blue RAL5000
- For hot and cold water systems for fluids excluding acid
- Available in PN16/PN25 reted models

Wafer Check Valve

2622



Order number PN16	DN	Dim.	Kv Value
4 **2622** 31	65	2 1/2	69
4 **2622** 32	80	3	123
4 **2622** 33	100	4	234
4 **2622** 34	125	5	352
4 **2622** 35	150	6	599
4 **2622** 36	200	8	1188
4 **2622** 37	250	10	2494
4 **2622** 38	300	12	4044
4 **2622** 39	350	14	5051
4 **2622** 40	400	16	5500
4 **2622** 41	450	18	6715
4 **2622** 42	500	20	9430
4 **2622** 43	600	24	15700

Technical data:

- Temperature range: -10 °C to +110 °C
- Pressure rate: PN16 / PN25
- Flange Dimensions according to EN1092-2
- Design standard EN 12334
- Coating epoxy coated, blue RAL5000
- Available in PN16/PN25 reted models

Tilting Check Valve

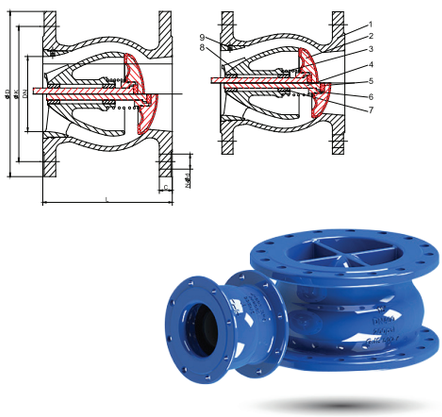
2622

Order number PN16	Order number PN25	Weight (Kg) PN25	DN
4 **2622** 50	5 **2622** 50	13	50
4 **2622** 51	5 **2622** 51	21	65
4 **2622** 52	5 **2622** 52	22	80
4 **2622** 53	5 **2622** 53	25	100
4 **2622** 54	5 **2622** 54	40	125
4 **2622** 55	5 **2622** 55	52	150
4 **2622** 56	5 **2622** 56	149	200
4 **2622** 57	5 **2622** 57	182	250
4 **2622** 58	5 **2622** 58	316	300
4 **2622** 59	5 **2622** 59	432	350
4 **2622** 60	5 **2622** 60	550	400
4 **2622** 61	5 **2622** 61	670	450
4 **2622** 62	5 **2622** 62	880	500
4 **2622** 63	5 **2622** 63	1102	600

Features:

- Can be installed in any direction
- Resistant to temperature up to 80°C
- Reliable in portable systems

Non Slam Check Valve (Nozzle Type)



Order number	DN	L	ØD	ØK	n-Ød	C
4 **2622** 81	65	170	185	145	4-Ø19	19
4 **2622** 82	80	180	200	160	8-Ø19	19
4 **2622** 83	100	190	220	180	8-Ø19	19
4 **2622** 84	125	200	250	210	8-Ø23	19
4 **2622** 85	150	210	285	240	8-Ø23	19
4 **2622** 86	200	230	340	295	12-Ø23	20
4 **2622** 87	250	250	405	355	12-Ø28	22
4 **2622** 88	300	270	460	410	12-Ø28	24.5
4 **2622** 89	350	290	520	470	16-Ø28	24.5
4 **2622** 90	400	310	580	525	16-Ø31	24.5
4 **2622** 91	450	615	640	585	20-Ø31	25.5
4 **2622** 92	500	670	715	650	20-Ø34	26.5
4 **2622** 93	600	780	840	770	20-Ø37	30

Technical Data

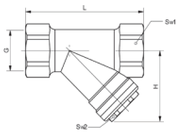
- Temperature range : 10°C … +80°C
- Pressure rate : PN16
- Flange Dimensions : according to EN1092-2
- Coating : Epoxy Coated

Materials

- Body : Ductile Iron
- Disc : Ductile Iron & EPDM
- Spring: Stainless Steel
- Stem : Stainless Steel

Strainer, Mesh Width 0.5 mm

2662



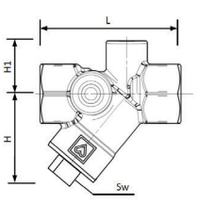
Order number	DN	PN	G	L	H	SW1	SW2	Kvs	Max. operating temp.
1 **2662** 11	15	25	1/2	68	37	25	22	3.10	110 °C
1 **2662** 12	20	25	3/4	90	46	32	24	6.30	110 °C
1 **2662** 13	25	25	1	90	55	41	25	10.40	110 °C
1 **2662** 14	32	25	1 1/4	93	62	47	32	16.5	110 °C
1 **2662** 15	40	25	1 1/2	105	69	54	36	27.4	110 °C
1 **2662** 16	50	25	2	125	83	67	46	36.7	110 °C

Technical data:

- Body: CW617N
- Mesh: expanded metal, rhombic mesh, Stainless steel 1.4301, Mesh size 0,5 mm
- Sealings EPDM according KTW, WRAS and DVGW W270

Strainer, Mesh Width 0.75 mm

4111



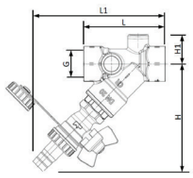
Order number	DN	PN	G	L	H	H1	SW	Kvs	Max. operating temp.
1 **4111** 11	15	25	1/2	65	42.5	24	13	3.1	110 °C
1 **4111** 12	20	25	3/4	75	50	23	24	6.9	110 °C
1 **4111** 13	25	25	1	90	57.3	32	27	12	110 °C
1 **4111** 14	32	25	1 1/4	110	70	39	32	21.5	110 °C
1 **4111** 15	40	25	1 1/2	120	79	40	32	30.0	110 °C
1 **4111** 16	50	25	2	150	103	45	32	42.0	110 °C
1 **4111** 17	65	16	2 1/2	180	118	53	32	64.3	110 °C
1 **4111** 18	80	16	3	220	137	61	32	148.6	110 °C

Materials:

- Body: DZR
- Mesh: expanded metal, rhombic mesh, Stainless steel 1.4301, Mesh size 0,75mm
- Sealings: EPDM according KTW, WRAS and DVGW W270

Strainer with Drain Valve

4111



Order number	DN	PN	G	L	L1	H	H1	Kvs	Max. operating temp.
1 **4111** 41	15	25	1/2	65	112	102	24	3.1	110 °C
1 **4111** 42	20	25	3/4	75	122	111	26	7.1	110 °C

Technical data:

- Body: DZR (CC752S)
- Mesh: expanded metal, rhombic mesh, Stainless steel 1.4301, Mesh size 0,75mm
- Sealings: EPDM according KTW, WRAS and DVGW W270

Cast Iron Strainer

4111

Order number PN16	Order number PN25	DN	Dim.	Kvs
4 **4111** 80	5 **4111** 80	50	2	51
4 **4111** 81	5 **4111** 81	65	2 1/2	70
4 **4111** 82	5 **4111** 82	80	3	114
4 **4111** 83	5 **4111** 83	100	4	197
4 **4111** 84	5 **4111** 84	125	5	271
4 **4111** 85	5 **4111** 85	150	6	349
4 **4111** 86	5 **4111** 86	200	8	449
4 **4111** 87	5 **4111** 87	250	10	994
4 **4111** 88	5 **4111** 88	300	12	1566
4 **4111** 89	5 **4111** 89	350	14	2461
4 **4111** 90	5 **4111** 90	400	16	3186
4 **4111** 91	5 **4111** 91	450	18	3245
4 **4111** 92	5 **4111** 92	500	20	3846
4 **4111** 93	5 **4111** 93	600	24	4215

Technical data:

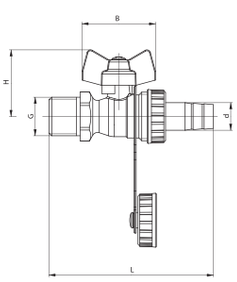
- Body: GG25 (PN16), GGG40 (PN25)
- Bonnet: GG25 (PN16), GGG40 (PN25)
- Filter: AISI 304
- Reinforcing frame: Stainless steel
- Gasket: Klingerit
- Plug gasket: Copper
- Plug: Steel St37
- Temperature range: -10 °C to +110 °C
- Pressure rate: PN16 / PN25
- Flange Dimensions according to EN1092-2
- Coating painted blue RAL5000

Ball Valve with spigot and union nut 1/2

2512

Technical data:

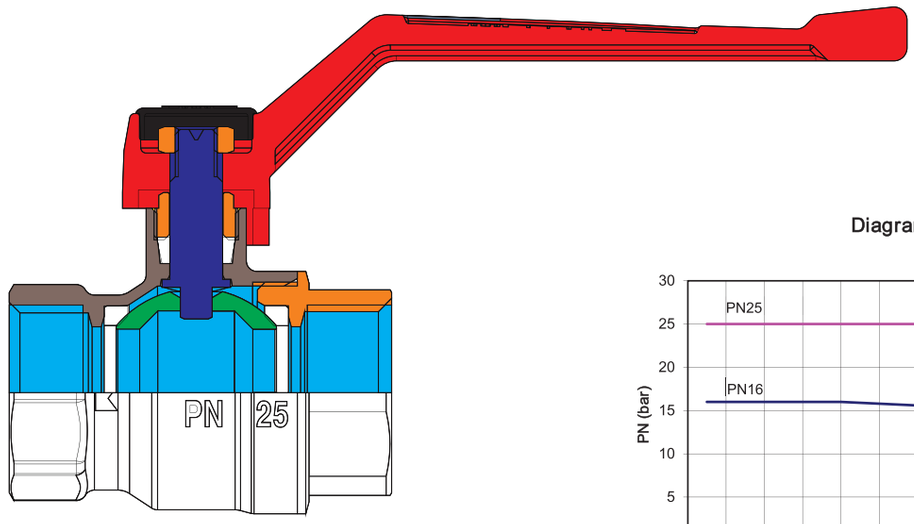
- Body: CW617N
- Ball: CW617N, full bore, Surface chrome plated
- Spindle: brass CW614N
- Locking bolt: Aluminium red painted
- Sealings: PTFE (ball), PTFE (spindle)
- WRAS approved



Order number	PN	DN	G	L	L1	d	H	H1	B	Sw		
1 **2512** 01	25	15	1/2″	83	-	15	37	-	40	24	0.170	50
1 **2512** 02	25	20	3/4″	98	-	19	40	-	40	30	0.290	50

T = from -10 °C up to +110 °C

Ball valves



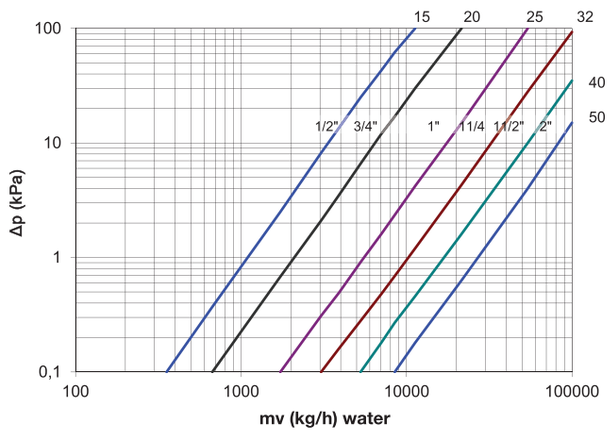


Diagram PN-T

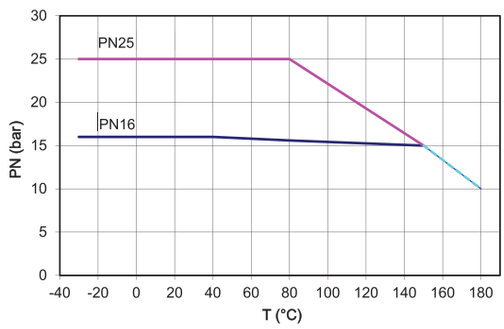
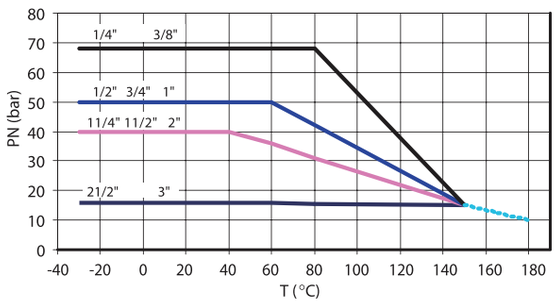
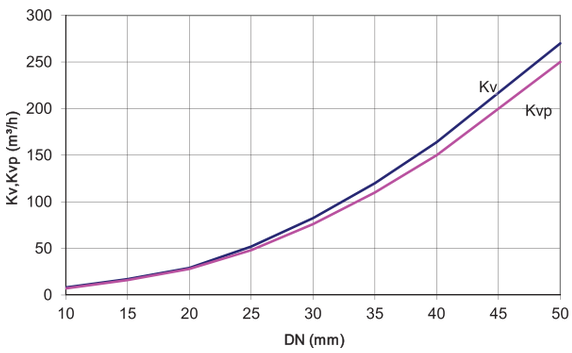


Diagram PN-T (pressure-temperature)

Diagram PN-T (pressure-temperature)





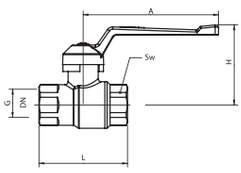
DN	15	20	25	32	40	50
Kv	17	34	55	102	165	270
Kvp	15,8	31,5	51	95	153	250

Kv: Outflow characteristic (m3 / h) - is the flow of water at temperature 15.5°C, a pressure drop of 1 bar (100 kPa) and a fully open valve.

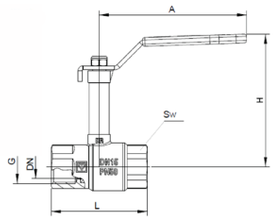
Kvp: Outflow characteristic (m3 / h) - is the flow of air with density of 1,16 kg/m3 at temperature 15.5°C, a pressure drop of 1 mbar (0,1 kPa) and a fully open valve.

Ball Valve

2190 0X



2190 2X



Order number	DN	PN	G	L	H	A	Sw	Max. operating temp.
1 **2190** 01	15	50	1/2″	59	53	90	25	120 °C
1 **2190** 02	20	50	3/4″	65	56	90	32	120 °C
1 **2190** 03	25	50	1″	80.5	77	135	41	120 °C
1 **2190** 04	32	40	1 1/4″	91	81	135	48	120 °C
1 **2190** 05	40	40	1 1/2”	104	95	180	55	120 °C
1 **2190** 06	50	40	2”	125.5	101	180	70	120 °C
1 **2190** 07	65	16	2 1/2”	146	124	210	88	120 °C
1 **2190** 08	80	16	3”	179	134	210	105	120 °C
1 **2190** 21	15	50	1/2″	59	90	90	25	120 °C
1 **2190** 22	20	50	3/4″	65	93	90	32	120 °C
1 **2190** 23	25	50	1″	80.5	107	135	41	120 °C
1 **2190** 24	32	50	1 1/4″	91	111	135	48	120 °C
1 **2190** 25	40	25	1 1/2”	100	136	180	55	120 °C
1 **2190** 26	50	25	2”	118	144	180	68	120 °C

Materials:

Body: 1 **2190** 01 - 06 and 1 **2190** 21 - 26 forged DZR brass, CW602N
1 **2190** 07 - 08 DZR brass CC752S
Ball: forged DZR brass, full bore, surface chrome plated
Spindle: brass
Lever: 1 **2190** 01 - 08, Aluminium red painted
1 **2190** 21 - 26, Steel zinc coated, red plastic covered
Sealing: Ball: PTFE, Spindle: EPDM

WRAS approved

Full Port Ball Valve

I 0491

Order number	D	G	Handle
I 0491	15	1/2″	T-form
I 0491	20	3/4″	T-form
I 0491	25	1”	T-form
I 0491	32	1 1/4”	lever
I 0491	40	1 1/2”	lever
I 0491	50	2”	lever

Technical data:

- Pressure Rating PN 30
- Temperature Rating max. 100°C water (no steam), (depending on pressure)
- Forged Brass Nickel Plated Body
- Threaded Ends according to ISO 228
- Full Port Opening
- Blow Out Proof Stem

Materials:

- Valve Body: CuZn40Pb2 - DIN EN 12165
- Seat Ring: PTFE
- Ball CuZn40Pb2 - DIN EN 12165
- Retainer-body end: CuZn40Pb2 - DIN EN 12165
- Stem: CuZn40Pb2 - DIN EN 12165
- “O”Ring: NBR 70 Shore
- Handle: Aluminium, AlSi11Cu2(Fe)
- Handle: screw Steel, zinc plated

Ball Valve PN 25, socket x socket, DZR

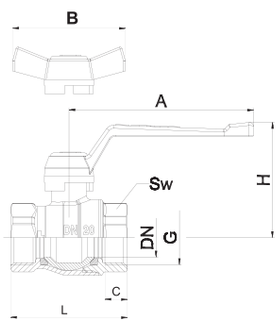
2206 with lever handle

2206 with T-handle

Technical data:

- Body of forged, dezincification-resistant special brass PTFE seals
- Spindle seal with PTFE
- Ball chrome-plated
- Female thread according to ISO 228
- Max. operating temperature: 150°C

	Order number	DN	PN	G	L	C	H	A	B	Sw
lever handle	1 **2206** 01	15	25	G1/2″	51	10	53	90	-	25
	1 **2206** 02	20	25	G3/4″	57	11	56	90	-	31
	1 **2206** 03	25	25	G1″	73	14	73	135	-	39
	1 **2206** 04	32	25	G1-1/4″	84	16	79	135	-	48
	1 **2206** 05	40	25	G1-1/2″	95	17	93	180	-	55
	1 **2206** 06	50	25	G2″	112	19	99	180	-	70
T-handle	1 **2206** 11	15	25	G1/2″	51	10	42	-	55	25
	1 **2206** 12	20	25	G3/4″	57	11	46	-	55	31
	1 **2206** 13	25	25	G1″	73	14	57	-	75	39
	1 **2206** 14	32	25	G1-1/4″	84	16	63	-	75	48



T= from -30 °C up to +150 °C

Ball Valve PN 25, socket x socket, DZR

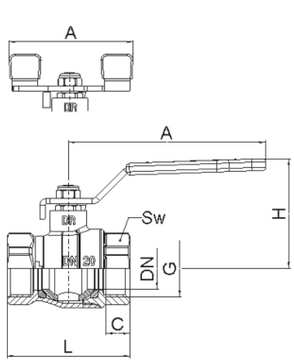
2206 with lever handle

2206 with T-handle

Technical data:

- Body of forged, dezincification-resistant special brass PTFE seals
- Spindle sealing with PTFE
- Ball chrome-plated
- Female thread according to ISO 228
- Max. operating temperature: 150°C

	Order number	DN	PN	G	L	C	H	A	Sw
lever handle	1 **2206** 21	15	25	G1/2″	51	10	48	90	25
	1 **2206** 22	20	25	G3/4″	57	11	51	90	31
	1 **2206** 23	25	25	G1″	73	14	63	135	39
	1 **2206** 24	32	25	G1-1/4″	84	16	69	135	48
	1 **2206** 25	40	25	G1-1/2″	95	17	85	180	55
	1 **2206** 26	50	25	G2″	112	19	91	180	70
T-handle	1 **2206** 31	15	25	G1/2″	51	10	45	60	25
	1 **2206** 32	20	25	G3/4″	57	11	48	60	31
	1 **2206** 33	25	25	G1″	73	14	65	85	39
	1 **2206** 34	32	25	G1-1/4″	84	16	71	85	48



T= from -30 °C up to +150 °C

Ball Valve with T-handle, socket x socket

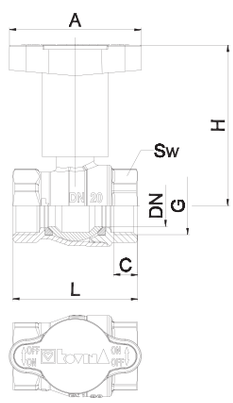
2206 red plastic

2206 blue plastic

Technical data:

- Body: forged brass acc. EN 12420
- Nut: forged brass acc. EN 12420
- Ball: forged brass, hollow bore, chrome platted
- Spindle: mashined brass
- Handle: plastic, red
- Connections: connection thread acc. to ISO 228
- Sealing elements: PTFE- polytetrafluoretylen (ball), PTFE- polytetrafluoretylen (spindle)

Order number	DN	PN	G	L	C	H	A	Sw
1 **2206** 41	15	25	G1/2″	51	10	70	60	25
1 **2206** 42	20	25	G3/4″	57	11	73	60	31
1 **2206** 43	25	25	G1″	73	14	82	85	39
1 **2206** 44	32	25	G1-1/4″	84	16	88	85	48
1 **2206** 45	40	25	G1-1/2″	95	17	120	120	55
1 **2206** 46	50	25	G2″	112	19	126	120	70
1 **2206** 51	15	25	G1/2″	51	10	70	60	25
1 **2206** 52	20	25	G3/4″	57	11	73	60	31
1 **2206** 53	25	25	G1″	73	14	82	85	39
1 **2206** 54	32	25	G1-1/4″	84	16	88	85	48
1 **2206** 55	40	25	G1-1/2″	95	17	120	120	55
1 **2206** 56	50	25	G2″	112	19	126	120	70



T= from -30 °C up to +150 °C

Ball Valve with T-handle and thermometer, socket x socket

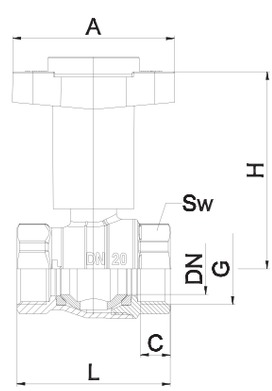
2206 red plastic

2206 blue plastic

Technical data:

- Body: forged brass acc. EN 12420
- Nut: forged brass acc. EN 12420
- Ball: forged brass, hollow bore, chrome platted
- Spindle: mashined brass
- Handle: plastic, red
- Connections: connection thread acc. to ISO 228
- Sealing elements: PTFE- polytetrafluoretylen (ball), PTFE- polytetrafluoretylen (spindle)

Order number	DN	PN	G	L	C	H	A	Sw
1 **2206** 61	15	25	G1/2″	51	10	70	60	25
1 **2206** 62	20	25	G3/4″	57	11	73	60	31
1 **2206** 63	25	25	G1″	73	14	82	85	39
1 **2206** 64	32	25	G1-1/4″	84	16	88	85	48
1 **2206** 65	40	25	G1-1/2″	95	17	120	120	55
1 **2206** 66	50	25	G2″	112	19	126	120	70
1 **2206** 71	15	25	G1/2″	51	10	70	60	25
1 **2206** 72	20	25	G3/4″	57	11	73	60	31
1 **2206** 73	25	25	G1″	73	14	82	85	39
1 **2206** 74	32	25	G1-1/4″	84	16	88	85	48
1 **2206** 75	40	25	G1-1/2″	95	17	120	120	55
1 **2206** 76	50	25	G2″	112	19	126	120	70



T= from -30 °C up to +150 °C

Ball Valve

2100 with lever handle

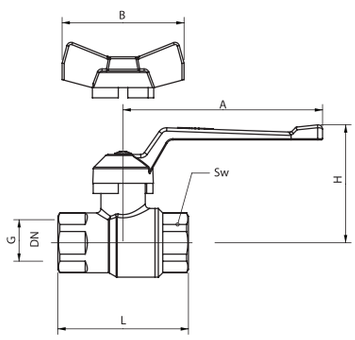
2100 with T-handle

Technical data:

Body: 1 **2100** 01-06 forged brass acc. EN 12420, CW617, nickel-plated
1 **2100** 07-08 DZR Brass CC752S, nickel-plated
Ball: pressed brass, full bore, machined to a microsmooth, finish, chrome platted
Spindle: brass
Handle: Aluminium alloy, plastic red dipped
Sealing elements: PTFE-Polytetrafluoretylen (ball and spindle)
Conections: female thread acc. ISO228

	Order number	PN	DN	G	L	A	B	H	Sw		
lever handle	1 **2100** 09	63	8	1/4″	43	60	-	44	17	0.115	25
	1 **2100** 00	63	10	3/8″	45	60	-	46	21	0.140	25
	1 **2100** 01	50	15	1/2″	59	90	-	53	25	0.235	25
	1 **2100** 02	50	20	3/4″	65	90	-	57	32	0.355	25
	1 **2100** 03	50	25	1″	80	135	-	71	41	0.625	20
	1 **2100** 04	40	32	1-1/4″	91	135	-	75	48	0.965	16
	1 **2100** 05	40	40	1-1/2″	104	180	-	93	55	1.660	8
	1 **2100** 06	40	50	2″	125	180	-	101	70	2.720	4
	1 **2100** 07	16	65	2-1/2″	146	265	-	124	85	4.200	2
	1 **2100** 08	16	80	3″	179	265	-	134	105	6.200	2
T-handle	1 **2100** 19	63	8	1/4″	43	-	40	44	17	0.115	25
	1 **2100** 10	63	10	3/8″	45	-	40	46	21	0.140	25
	1 **2100** 11	50	15	1/2″	59	-	55	53	25	0.235	25
	1 **2100** 12	50	20	3/4″	65	-	55	57	32	0.355	25
	1 **2100** 13	50	25	1″	80	-	75	71	41	0.625	20
	1 **2100** 14	40	32	1-1/4″	91	-	75	75	48	0.965	16

T= from -30°C up to +150°C



Multifunction Ball Valve with Thermometer

2414 with red T-handle

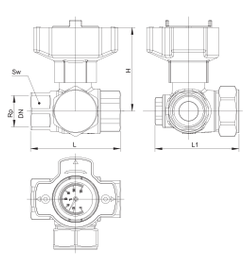
2415 with blue T-handle

Technical data:

- 4-way ball valve of dezincification-resistant brass
- spindle sealing with PTFE and O-ring
- female thread according to ISO 228
- Connection for draining, or manometer.
- T-port of the ball allows for many applications, such as
- flushing or filling of full systems and parts of systems

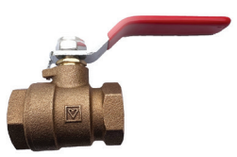
Order number	PN	DN	Rp	Sw	L	L1	H	blue T-h.	red T-h.		
1 **2414** 02	25	20	3/4″	32	75	65	70		x	0.630	20
1 **2415** 02	25	20	3/4″	32	75	65	70	x		0.630	20
1 **2414** 03	25	25	1″	41	96	98	75		x	1.200	10
1 **2415** 03	25	25	1″	41	96	98	75	x		1.200	10
1 **2414** 04	25	32	1-1/4″	50	109	113	81		x	1.400	10
1 **2415** 04	25	32	1-1/4″	50	109	113	81	x		1.400	10

T min.= -10°C (short time -30°C), water 0.5°C
T max.= 130°C (short time 150°C), water 110°C



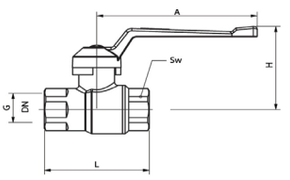
Ball Valve Heavy type

2190



Technical data:

- Body: 3 2190 01-06, Bronze CC491K
- Ball: Bronze, full bore, surface chrome plated
- Spindle:Bronze CC491K
- Lever:3 2190 01 - 06, Aluminium red painted
- Sealing:Ball: PTFE, Spindle: EPDM



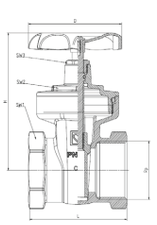
Order number	DN	G	PN	L	H	A	Sw
3 **2190** 01	15	½	50	59	53	90	25
3 **2190** 02	20	¾	50	65	56	90	32
3 **2190** 03	25	1	50	80.5	77	135	41
3 **2190** 04	32	1 ¼	40	81	81	135	48
3 **2190** 05	40	1 ½	40	95	95	180	55
3 **2190** 06	50	2	40	101	101	180	70

Gate Valve wedge and double disc version.

4113

Technical data:

- Body: Bronze CC491k
- Upper Part: Bronze CC491k
- HandWheel : Sheet Steel,Coated
- Seat : EPDM



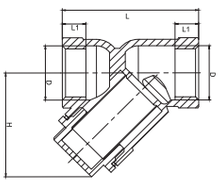
Order number	DN	PN(bar)	Rp	D	H	L	SW1	SW2	SW3
3 **4113** 01	15	20	½	50	71.6	49.4	27	21	15
3 **4113** 02	20	20	¾	50	73.8	52.4	32	21	15
3 **4113** 03	25	20	1	60	84.3	61	39	26	15
3 **4113** 04	32	20	5/4	60	94	69.6	49	37	15
3 **4113** 05	40	20	6/4	80	115	74	55	41	21
3 **4113** 06	50	20	2	105	142.5	89	68	41	25

Strainer

2662

Technical data:

- Body: Bronze CC491k
- Mesh: Stainless steel Type 304
- Mesh size : 0.5mm
- Sealings: EPDM



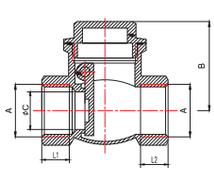
Art.Nr.	PN(bar)	DN(mm)	D(mm)	L(mm)	L1(mm)	H(mm)
3 **2662** 01	20	15	½"	52	9	40
3 **2662** 02	20	20	¾"	67	11	52
3 **2662** 03	20	25	1"	81	12	59
3 **2662** 04	20	32	1 ¼"	90.5	15	70
3 **2662** 05	20	40	1 ½"	100	19.5	74.5
3 **2662** 06	20	50	2"	121.5	23	92

Swing Check Valve

2622

Technical data:

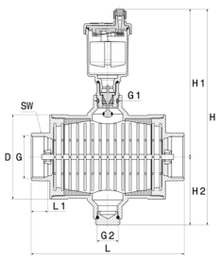
- Body: Bronze CC 491K
- Bonnet: Bronze CC 491K
- Disc : :Bronze CC 491K
- Seat: Bronze CC 491K
- Connection : female thread acc. ISO228



Art.Nr.	PN(bar)	DN(mm)	A(mm)	B(mm)	C(mm)	L1(mm)	L1(mm)
3 **2622** 01	20	15	½"	34.5	14	22.5	22.5
3 **2622** 02	20	20	¾"	37.5	17.5	17.5	17.5
3 **2622** 03	20	25	1"	45	23	16	16
3 **2622** 04	20	32	1 ¼"	50	27	13	13
3 **2622** 05	20	40	1 ½"	56	31	12	12
3 **2622** 06	20	50	2"	72	41.5	9.5	9.5

Air Separator combined with automatic air vent

I 0124



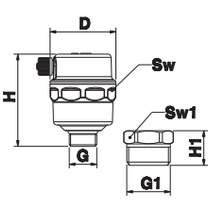
Technical data:

- Combined with automatic air vent
- Body of brass
- Nominal pressure: 12 bar
- Operating pressure: 6 bar
- Max. operating temperature: 110°C

Order number	G	D	L	L1	G1	G2	H	H1	SW	
I **0124** 02	3/4″	83	170	18	1/2″	1/2″	214	67	38	1
I **0124** 03	1″	83	151	16,5	1/2″	1/2″	214	67	38	1
I **0124** 02	11/4″	83	151	16	1/2″	1/2″	214	67	47	1
I **0124** 02	11/2″	83	154	17,5	1/2″	1/2″	214	67	54	1
I **0124** 02	2″	83	155	17	1/2″	1/2″	214	67	66	1

Air Vents

2630 with fill and release valve



2630 with release valve

Technical data:

- Body of forged brass
- NBR seals (1 **2630** 00)
- Max. operating temperature: 80°C (1 **2630** 00)
- EPDM seals (1 **2630** 10)
- Max. operating temperature: 110°C (1 **2630** 00)

Order number	D	G	G1	H	H1	Sw1		Colour of the nut	Backflow preventer
1 **2630** 00	39	3/8	3/8	63	35	19	0.153	Black	Yes
1 **2630** 01	39	3/8	1/2	63	35	19	0.160	Black	Yes
1 **2630** 02	39	3/8	/	63	/	/	0.122	Black	No
1 **2630** 03	39	3/8	3/4	63	22	27	0.185	Black	No
1 **2630** 10	40	3/8	/	56	/	/	0.188	Red	No
1 **2630** 11	40	3/8	3/8	56	30	22	0.226	Red	Yes
1 **2630** 12	40	3/8	1/2	56	26	22	0.220	Red	Yes

Stop Valve

2621

Order number	PN	Dim.
1 **2621** 01	10	15

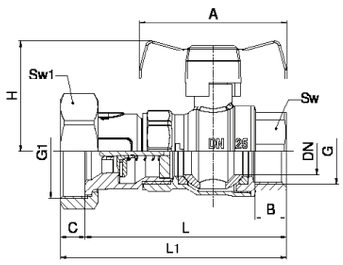
Brass body, with O-ring, PN 10, G 1/2.
Temperature range is from 0 °C to +100 °C.
Rp 1/2 – Rp 3/8.

Ball Valve for pump with check valve

2268

Technical data:

- Body of forged brass
- PTFE seals
- Spindle seal with PTFE
- Max. operating temperature: 150°C

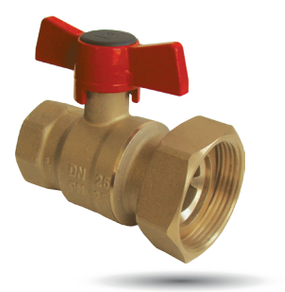


Order number	PN	DN	G	G1	L	L1	A	B	C	H	Sw	Sw1	
1 **2268** 03	16	25	1″	1-1/2″	102	114,5	75	16	12,5	56	39	52	0,76

T = from -10 °C up to +110 °C

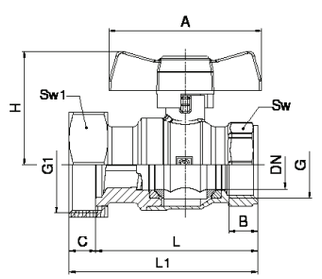
Ball Valve for pump

2269



Technical data:

- Body of forged brass
- PTFE seals
- Spindle seal with PTFE
- Max. operating temperature: 150°C



Order number	PN	DN	G	G1	L	L1	A	B	C	H	Sw	Sw1	
1 **2269** 03	16	25	1″	1-1/2″	79,5	92,5	75	14	13	56	39	52	0,59

T = from -10 °C up to +110 °C

Check Valve and Pump Connection

2634

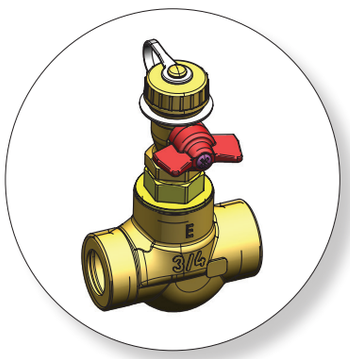
Technical data:

- Body of forged brass
- EPDM seals
- PN 25 / DN 20
- Max. operating temperature: 90°C

Order number	PN	Dim.
1 **2634** 03	25	20

HVAC

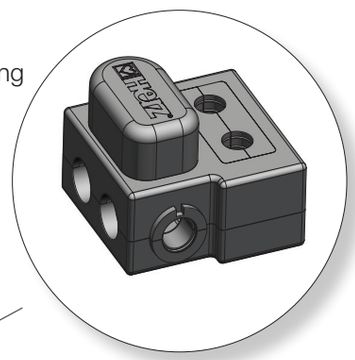
The integrated drain valve in the strainer allows for flushing the system without removing the strainer basket.

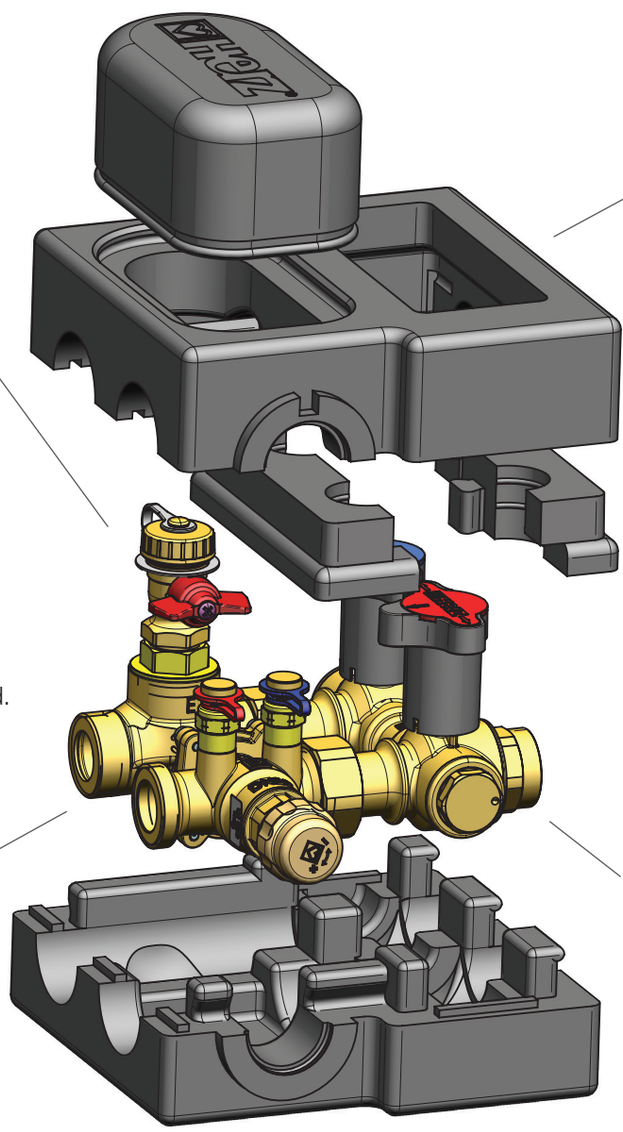


Isolation box (fire resistance)

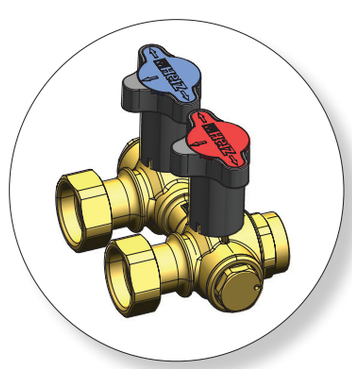
Method	Class
DIN EN ISO 11925-2 [1]	E
DIN 4102-1	E
FMVSS 302	fullfilled
UL 94	HBF

[1] edge exposure, classification according to EN 13501-1





Turn 3 into 1: One valve for three requirements: DPCV, balancing, regulation. No calculation and verification of valve authority required.



HERZ multifunctional ball valves with red and blue handle, ball with T-bore. Full bore ball valve allows the drainage or filling of complete systems or a subsystem in case of maintenance.

HerzCON

Pressure Independent Connect-4 with insulation

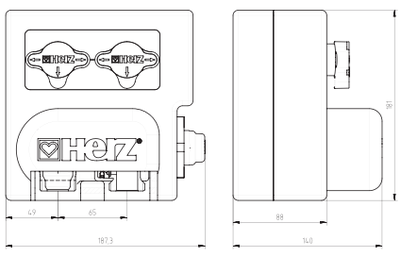
HerzCON

Technical data:

- Max. operating pressure: 25 bar
- Min. operating temperature: - 20 °C
- Max. operating temperature: 130 °C
- Lift: 4 mm

Materials:

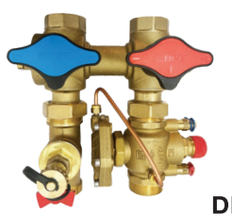
- Body: DZR
- Membranes and O-rings: EPDM



DN15 - DN20

DN15 - DN20

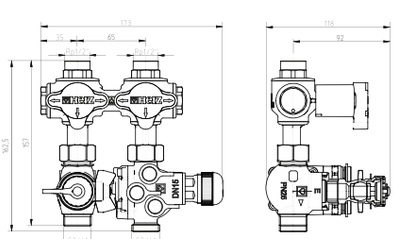
DN25



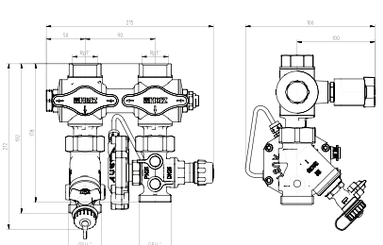
DN32

Order number	DN	Flow rate area (l/h)	Standard operation kvs [m³/h]	Bypass operation kvs [m³/h]	Insulation box
1 **4600** 50	15LF	07 - 120	0.20	4.8	yes
1 **4600** 59	15MF	11 - 190	0.34	4.8	yes
1 **4600** 76	15SF	72 - 800	1.65	4.8	yes
1 **4600** 56	15HF	80 - 1200	2.54	4.8	yes
1 **4600** 77	20SF	80 - 1200	2.46	5.4	yes
1 **4600** 57	20HF	108 - 2000	3.33	5.4	yes
1 **4600** 58	25	144 - 1900	2.75	10	yes
1 **4600** 54	32	180 - 2500	4.57	14.8	no

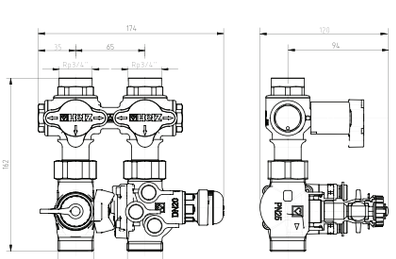
Watch YouTube presentation:



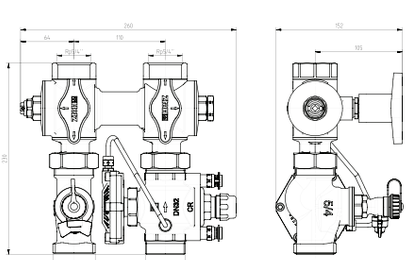
DN 15SF HF



DN25



DN 20SF HF



DN32

Connect-4

Pressure Independent Connect-4 without insulation PN 25

4600

HERZ Connect-4 has been designed to give a simple connection to fan-coils, or other terminal units, and utilses the HERZ 4206 SMART or HERZ 4206 Pressure Independent Balancing Control Valve with HERZ 2206 ball valves with T-handle and a HERZ 4111 strainer. On/off or modulating 0 – 10 V DC actuators can be fitted and integrated to a BMS if required.

The unit allows pressure independent control ensuring full stroke regardless of pressure fluctuations, while guaranteeing a constant flow rate to the terminal unit maximising energy efficiency for the system. The Connect-4 unit also permits flushing and isolating operations to be undertaken. The Connect-4 is fitted with test points.

The Connect-4 is fitted in a insulation box. This means there is no product differentiation between heating and chilled, one unit does both applications. The drain cock fitted to the strainer allows flushing without the need to remove the strainer basket and also allows the strainer basket to be cleaned in-situ.

Order number	Dim.	Kvs
1 **4600** 11	15	0.94
1 **4600** 12	20	1.71
1 **4600** 13	25	1.90
1 **4600** 14	32	2.50
1 **4600** 15	40	5.00
1 **4600** 16	50	5.00
1 **4600** 17	20	0.90

Fan Coil Connection Hose, insulated

HBD200

Order number	DN
H **BD200** 15	15
H **BD200** 20	20
H **BD200** 25	25
H **BD200** 32	32
H **BD200** 40	40
H **BD200** 50	50

Technical data:

- Hose Type: Braided flexible metal hose.
- Hose Material: Stainless Steel AISI 316L
- Braiding Material:Stainless Steel AISI 304
- Union:Carbon Steel St.37.2 & Dielectric. (FxF End connection)
- Insulation: EPDM, Rubber based.
- Pressure rating: PN25

Fan Coil Connection Hose, insulated

HB200

Order number	DN
H **B200** 15	15
H **B200** 20	20
H **B200** 25	25
H **B200** 32	32
H **B200** 40	40
H **B200** 50	50

Technical data:

- Hose Type: Standard braided metal hose acc. to DIN EN ISO 10380
- Hose Material: Stainless Steel AISI 316L, AISI 304, 321
  also available upon request
- Temperature Range: Min. -270 °C up to max. 600 °C
- Union:Carbon Steel St.37.2 & Carbon Steel St.37.2 (FxF End connection)
- Insulation : Rubber based EPDM Insulation
- PN25 rated

Metal Expansion Joint

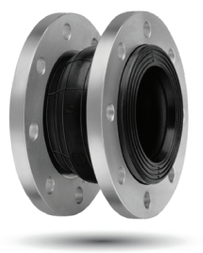
FM220

Order number	DN
F **M220** 01	65
F **M220** 02	80
F **M220** 03	100
F **M220** 04	125
F **M220** 05	150
F **M220** 06	200
F **M220** 07	250
F **M220** 08	300

Technical data:

- Bellow Material: Stainless Steel ANSI 304
- Flange: Carbon Steel St 37.2
- Layner (Optional): Stainless Steel ANSI
- Operating Pressure: PN16
- Operating Temperature: Max. 500°C

Rubber Expansion Joints



Order number	Diameter
FS 220 01	65
FS 220 02	80
FS 220 03	100
FS 220 04	125
FS 220 05	150
FS 220 06	200
FS 220 07	250
FS 220 08	300
FS 220 09	350
FS 220 10	400
FS 220 11	450
FS 220 12	500
FS 220 13	600

Technical data:

- Bellow Material: Special Synthetic Rubber
- Flange: Ductile Iron GGG 40.3
- Steel Wire: Carbon Steel
- Nylon braid fibre: Synthetic Fibre

Threaded Connection Elements with cone

Order number	Shoulder throw	Dim.
1 **6209** 03	5/4	1
1 **6209** 04	1 3/4	1 1/4
1 **6210** 00	5/8	3/8
1 **6210** 21	3/4	1/2
1 **6210** 26	3/4	1/2 x 26
1 **6210** 11	3/4	1/2 x 35
1 **6210** 02	1	3/4

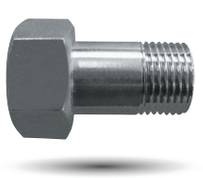
Technical data:
Iron pipe connection with cone, nut and connection element.

Threaded Connection Elements with cone flat seal iron pipe connection

6220

Order number	Shoulder throw	Rp.
1 **6220** 00	G 5/8	3/8
1 **6220** 20	G 1/2	3/8
1 **6220** 21	G 3/4	1/2
1 **6220** 12	G 1	3/4
1 **6220** 64	G 1 1/2	1 1/4
1 **6220** 74	G 2	1 1/4
1 **6220** 75	G 2 1/4	1 1/2
1 **6220** 76	G 2 3/4	2

Technical data:
Iron pipe connection with flat seal with nut and seal, Rc for 4037, 7762, 7763, 7760.



Order number	Shoulder throw	Rp.
1 **6220** 11	G 3/4	1/2 x 38 mm
1 **6220** 22	G 1	3/4 x 44mm
1 **6220** 63	G 1 1/4	1
1 **6220** 65	G 1 3/4	1 1/2
1 **6220** 66	G 2 3/8	2

Technical data:
Iron pipe connection with flat seal with nut, connection element and seal. 4004, 4315, 4325, 4415, 4417, 4207, 7761, 7217, 4216, 7766.

Plastic Pipe Connections for PE-X, PE-RT, PB and Aluminium Composite Pipes

6098

Order number	Dim.
1 **6098** 18	10 x 1.3
1 **6098** 02	14 x 2
1 **6098** 16	15 x 2.5
1 **6098** 03	16 x 2
1 **6098** 13	16 x 2.25
1 **6098** 04	17 x 2
1 **6098** 05	17 x 2.5
1 **6098** 07	18 x 2
1 **6098** 06	18 x 2.5
1 **6098** 17	18 x 3
1 **6098** 08	20 x 2
1 **6098** 20	20 x 2.25
1 **6098** 10	20 x 3.5
1 **6098** 11	20 x 2.5
1 **6098** 09	20 x 2.8
1 **6098** 19	20 x 3.4

Technical data:
Plastic Pipe Connections 3/4 For PE-X, PB and aluminium composite pipes, consisting of spiggot, olive and union nut G 3/4. With cone.

6066

Order number	Dim.
1 **6066** 02	14 x 2
1 **6066** 03	16 x 2
1 **6066** 04	17 x 2

Technical data:
Plastic Pipe Connections M 22 x 1.5 For PE-X, PB and aluminium composite pipes, consisting of spiggot, olive and union M 22 x 1.5.

6092

Order number	Dim.
1 **6092** 11	12 x 2
1 **6092** 12	14 x 2
1 **6092** 13	16 x 2

Technical data:
Plastic Pipe Connection G 1/2 with double O-Ring and insulating disc, consisting of spiggot, and olive and union nut G 1/2 with cone.

6198

Order number	Dim.
1 **6198** 11	16 x 2
1 **6198** 12	20 x 2
1 **6198** 00	25 x 3.5
1 **6198** 01	26 x 3

Technical data:
Plastic Pipe Connections G 1. For PE-X, PB and aluminium composite pipes, consisting of spiggot, olive and union nut G 1 with cone.

PERT Pipe

Order number	Dim.
U **1622** 40	16 x 2
U **1624** 80	16 x 2
U **1626** 00	16 x 2
U **1722** 40	17 x 2
U **1724** 80	17 x 2
U **1726** 00	17 x 2
U **1822** 40	18 x 2
U **1824** 80	18 x 2
U **2022** 40	20 x 2
U **2024** 80	20 x 2

Technical data:
HERZ-LINE PE-RT 5-layered pipe High-safety pipe, impermeable to oxygen due to EVOH layer according to DIN 4726, PE external sheath for protection of the EVOH oxygen barrier layer against mechanical damage. Manufactured according to EN ISO 22391. Colour: Red.


1
3
5
2
4
6
0 1 2 3 4 5 6 7 8 9
Herz
DN25

02/ Water

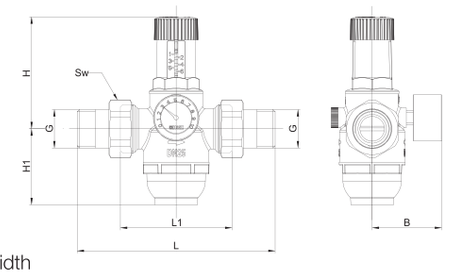
Each drop counts

Diaphragm Pressure Reducer

2682

Technical data:

- Compact shape
- Body of dezincification-resistant brass
- Cap of transparent plastic
- Filter key and manometer included
- Temperature range from 0°C to 40°C
- Operating pressure: 16 bar
- Setting range from 1.5 to 6 bar
- Stainless steel strainer mesh with 0.3 mm mesh width



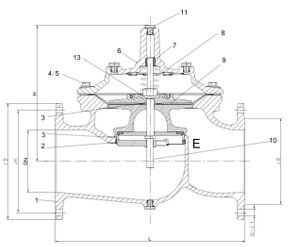
Model	Dimension	PN	DN	G	L (mm)	L1 (mm)	B (mm)	H (mm)	H1 (mm)	Sw
1 **2682** 11	1/2"	16	15	1/2"	147	84	67	98	66	30
1 **2682** 12	3/4"	16	20	3/4"	155	84	67	98	66	37
1 **2682** 13	1"	16	25	1"	185	98	67	98	66	46
1 **2682** 14	1-1/4"	16	32	1-1/4"	204	120	78	156	100	52
1 **2682** 15	1-1/2"	16	40	1-1/2"	224	122	78	156	100	60
1 **2682** 16	2"	16	50	2"	252	136	78	156	100	75
1 **2682** 21	1/2"	16	15	1/2"	147	84	67	98	66	30
1 **2682** 22	3/4"	16	20	3/4"	155	84	67	98	66	37
1 **2682** 23	1"	16	25	1"	185	98	67	98	66	46
1 **2682** 24	1-1/4"	16	32	1-1/4"	204	120	78	156	96	52
1 **2682** 25	1-1/2"	16	40	1-1/2"	224	122	78	156	96	60
1 **2682** 26	2"	16	50	"	252	136	78	156	96	75

Flanged Pressure Reducing Valve

HVPRVF

Technical data:

- Size: DN50 to DN300
- Pressure Rating: PN16 (PN25 available on request)
- Outlet Pressure: 1-10 Bar
- Working Temperature: -10°C to 80°C
- End Connection:EN1092-2, PN16
- Purpose requirement :BS EN1074-5
- Valve Testing: BS EN12266-1
- Face to Face: BS EN558-1
- Epoxy coated



Order number	DN	L	ØD	ØK	H	N-Ød	ØB
HVPRVF 00	50	230	165	125	177	4-Ø19	Ø99
HVPRVF 01	65	290	185	145	202	4-Ø19	Ø118
HVPRVF 02	80	310	200	160	219	8-Ø19	Ø132
HVPRVF 03	100	350	220	180	243	8-Ø19	Ø156
HVPRVF 04	125	400	250	210	243	8-Ø19	Ø156
HVPRVF 05	150	480	285	240	333	8-Ø23	Ø211
HVPRVF 06	200	600	340	295	428	8-Ø23	Ø266
HVPRVF 07	250	730	405	355	478	8-Ø28	Ø319
HVPRVF 08	300	850	460	410	538	8-Ø28	Ø370

Test Point

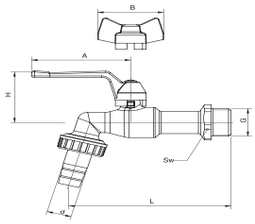
0284

Order number	Dim.
2 **0284** 20	1/4

Test Points with draining function Brass version, green cap, with swivel hose connection. Test point for flow computer.

Drain valve with connection for hose

2503



Technical data:

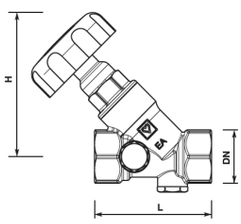
- Forged brass body
- Nickel-plated
- Seals of PTFE and NBR
- Suitable for use in horticultural, hydro and sanitary systems
- Temperature range from 0°C to +90°C

Order number	PN	DN	G	L	d	A	B	H	Sw		
1 **2503** 01	16	10	1/2″	98	15	60	-	38	25	0.205	25
1 **2503** 02	16	15	3/4″	103	19	60	-	41	30	0.260	25

T = from 0 °C up to +90 °C

Backflow preventer

4126



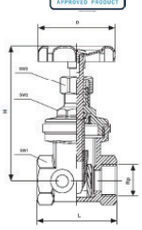
Technical data:

- Max. pressure: 16 bar
- Max. pressure on the closed valve: 10 bar
- Operating pressure from the backflow preventer: according to DIN EN 13959
- Max. operating temperature: 80°C
- Max. temperature: 95°C not longer than 1 hour
- Valve getting closed right-turned

Order number	DN	L	H	Rp
2 **4126** 01	15	65	82	1/2
2 **4126** 02	20	75	92	3/4
2 **4126** 03	25	90	150	1
2 **4126** 04	32	110	118	1 1/4
2 **4126** 05	40	120	127	1 1/2
2 **4126** 06	50	150	155	2

Gate Valve with non-rising spindle

4113



Materials:

- Body: DZR (CW 602N)
- Upper part: DZR (CW 602N)
- Handwheel: sheet steel, coated
- Sealing: EPDM

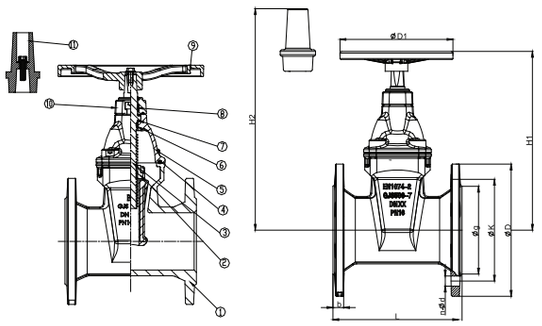
Technical data:

- Max. operating temperature: 120°C
- Connection thread: ISO 7-1 Rp
- PN20 rated

Order number	DN	Rp	SW1	SW2	SW3	D	H	L
HV5520 01	15	1/2	27	21	15	50	85	49.4
HV5520 02	20	3/4	32	21	15	50	89.5	52.4
HV5520 03	25	1	39	26	15	60	105.9	61
HV5520 04	32	1 1/4	49	37	15	60	126	69.6
HV5520 05	40	1 1/2	55	41	21	80	143.4	74
HV5520 06	50	2	68	41	25	105	176.5	89

Flanged Gate Valve

4113



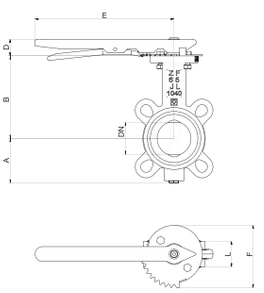
Technical data:

- Temperature range : -10°C … +80°C
- Pressure rate : PN16
- Flange Dimensions: according to EN1092-2
- Design standard: BS 5163;EN1074-2;BS 1171
- Coating: 250 µm epoxy coated

Order number	DN
4 **4113** 71	65
4 **4113** 72	80
4 **4113** 73	100
4 **4113** 74	125
4 **4113** 75	150
4 **4113** 76	200
4 **4113** 77	250
4 **4113** 78	300
4 **4113** 79	350
4 **4113** 80	400
4 **4113** 81	450
4 **4113** 82	500
4 **4113** 83	600

Butterfly Valve, semi lugged version

4219 ZF



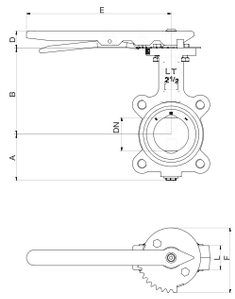
Materials:

- Housing: GG, GJL-250/JL1040, according to EN1561
- Disc: stainless steel 1.4408
- Spindle: stainless steel ASTM-A276 / Type 316
- Lever DN50-150: steel, ST14.03
- Gear DN200-300: steel, S235 DIN2458/1626
- Houisng sealing: EPDM according to ISO 1691
- O-Ring: EPDM according to ISO 1691
- Flange: according to EN1092-2
- Available in PN16/PN25 rated models

Order number	DN	PN16	A	B	L	D	E	F		Torque
HVBFSLL 50	50	+	68	125	43	30	255	112	3.8	20
HVBFSLL 65	65	+	80	150	46	30	255	112	4	20
HVBFSLL 80	80	+	87	157	46	30	255	112	4.7	25
HVBFSLL 100	100	+	102	182	52	30	255	112	6.3	50
HVBFSLL 125	125	+	120	201	56	30	255	112	8.3	50
HVBFSLL 150	150	+	132	214	56	30	255	112	10.1	90
HVBFSLG 200	200	+	167	245	60	95	365	88	16.6	150
HVBFSLG 250	250	+	197	283	68	133	519	130	24.5	250
HVBFSLG 300	300	+	222	308	78	133	519	130	37.6	350

Butterfly Valve, fully lugged version

4219 AF



Materials:

- Housing: GGG, GJS-400-15/JS1030, according to EN1563
- Disc: stainless steel 1.4408
- Spindle: stainless steel ASTM-A276 / Type 316
- Lever DN50-150: steel, ST14.03
- Gear DN200-300: steel, S235 DIN2458/1626
- Houisng sealing: EPDM according to ISO 1691
- O-Ring: EPDM according to ISO 1691
- Available in PN16/PN25 rated models

Order number	DN	PN16	A	B	L	D	E	F		Torque
HVBFFLL 50	50	+	68	125	43	30	255	112	3.8	20
HVBFFLL 65	65	+	80	150	46	30	255	112	4	20
HVBFFLL 80	80	+	87	157	46	30	255	112	4.7	25
HVBFFLL 100	100	+	102	182	52	30	255	112	6.3	50
HVBFFLL 125	125	+	120	201	56	30	255	112	8.3	50
HVBFFLL 150	150	+	132	214	56	30	255	112	10.1	90
HVBFFLG 200	200	+	167	245	60	95	365	88	16.6	150
HVBFFLG 250	250	+	207	283	68	133	519	130	24.5	250
HVBFFLG 300	300	+	222	308	78	133	519	130	37.6	350

Check Valve

2622

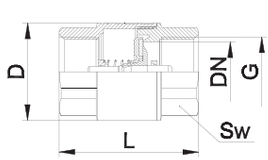
ZAG

Materials:

- Body: forged brass (CW617N) acc. EN 12420
- Seat: brass (CW614N) acc. EN 12164
- Holder: brass (CW614N) acc. EN 12164
- Spindle: brass (CW614N) acc. EN 12164
- Sealing: EPDM
- Spring: stainless steel (AISI 302) 1.4310
- Connections: female thread acc. ISO228

Technical data:

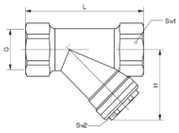
- Operating pressure: depending on dimension, see table above
- Operating temperature range: -10 °C up to 120°C (water 0.5°C - 95°C, no steam)
- Medium: water, compressed air, etc. (non-agressive mediums)



Order number	PN	DN	G	L	D	SW	Kvs	W
1 **2622** 41	25	15	1/2	47	29	25	2.9	0.104
1 **2622** 42	25	20	3/4	52	38	31	6.0	0.174
1 **2622** 43	25	25	1	62	48	38	10.2	0.285
1 **2622** 44	25	32	1 1/4	65	56	47	14.4	0.404
1 **2622** 45	25	40	1 1/2	73	69	54	26.2	0.698
1 **2622** 46	25	50	2	80	53	66	38	0.988

Strainer, Mesh Width 0.5 mm

2662



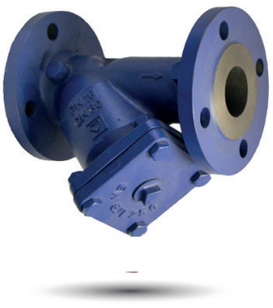
Order number	DN	PN	G	L	H	SW1	SW2	Kvs	Max. operating temp.
1 **2662** 11	15	25	1/2	68	37	25	22	3.10	110 °C
1 **2662** 12	20	25	3/4	90	46	32	24	6.30	110 °C
1 **2662** 13	25	25	1	90	55	41	25	10.40	110 °C
1 **2662** 14	32	25	1 1/4	93	62	47	32	16.5	110 °C
1 **2662** 15	40	25	1 1/2	105	69	54	36	27.4	110 °C
1 **2662** 16	50	25	2	125	83	67	46	36.7	110 °C

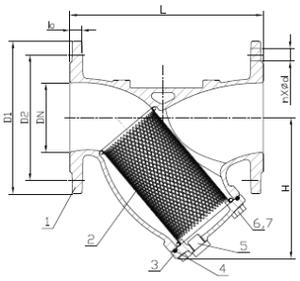
Technical data:

- Body: CW617N
- Mesh: expanded metal, rhombic mesh, Stainless steel 1.4301, Mesh size 0,5 mm
- Sealings EPDM according KTW, WRAS and DVGW W270

Strainer, Y - Type

4111





Order number	DN
4 **4111** 71	65
4 **4111** 72	80
4 **4111** 73	100
4 **4111** 74	125
4 **4111** 75	150
4 **4111** 76	200
4 **4111** 77	250
4 **4111** 78	300

Technical data:

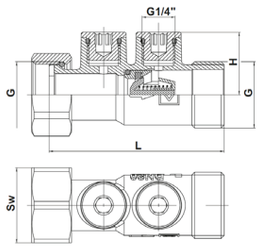
- Temperature range : -10°C - 80°C
- Pressure rate : PN16
- Flange Dimensions: according to EN1092-2
- Coating: powder epoxy coated, painted blue RAL5000
  For hot and cold water systems for fluids excluding acid and flammable fluids.The use of ethy len e or propylene glycol in a mixing ra o 25- 50% is allowed.

Backflow Preventer

2623

Technical data:

- Max. operating pressure: 16 bar
- Max. operating temperature: 95 °C
- Min. operating temperature: -10 °C, Water 0.5 °C
- Media: clear liquids



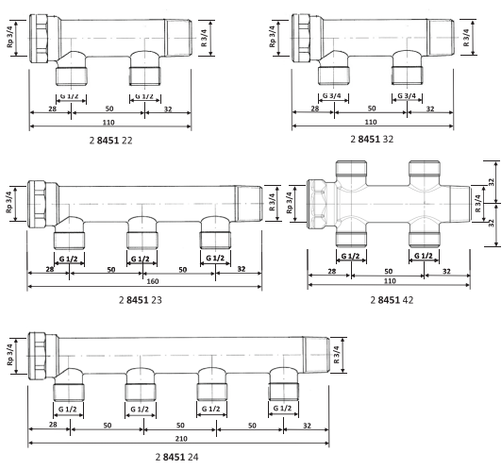
Order number	Dim.	DN	G	L	L1	H	Sw
1 **2623** 02	3/4	20	3/4	69.5	84	25	30
1 **2623** 03	1	25	1	74.5	84	27.5	36
1 **2623** 04	1 1/4	32	1 1/4	91	98	33	46

Compact Distributors for Sanitary Installation DN 20

8451

Technical data:

- Material: CC752S, (CuZn35Pb2Al-C), Hygienic drinking water suitable material for product group B and C, according ÖNORM B5014-3.
- Max. working temperature: 110°C
- Min. working temperature: 10°C
- Max. Pressure: 10 bar



Order number	Dim.
2 **8451** 22	with 2 outlets
2 **8451** 23	with 3 outlets
2 **8451** 24	with 4 outlets
2 **8451** 32	with 2 outlets
2 **8451** 42	with 4 outlets

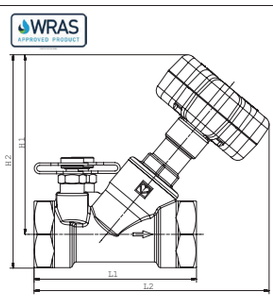
Wall-Angles with female thread

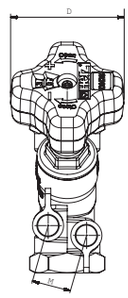
T 3124

Order number	G	Rp
T **3124** 14	1/2	1/2
T **3126** 14	3/4	1/2
T **3126** 15	3/4	3/4

Balancing Valves for hydronic balancing in drinking water installations

4017 M





Technical data:

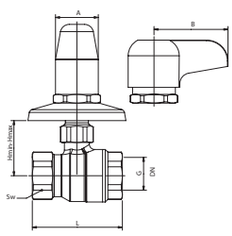
- Body: DZR brass
- Non-rising stem sealed with Double-O-Ring
- Presetting through stroke limiting,
- Handwheel with presetting digital display

Order number	DN	L1	L2	H1	H2	M	D	Kvs valve	Kvs Orifice
2 **4017** 00	15 LF	83	129	96	109	25	70	0.46	0.48
2 **4017** 09	15 MF	83	129	96	109	25	70	0.88	0.97
2 **4017** 01	15	83	129	96	109	25	70	2.00	1.95
2 **4017** 02	20	91	135	99	115	25	70	3.60	3.95
2 **4017** 03	25	110	146	109	130	25	70	6.50	7.90
2 **4017** 04	32	122	159	117	142	25	70	13.30	15.75
2 **4017** 05	40	135	178	136	163	25	70	18.50	21.50
2 **4017** 06	50	164	197	140	175	25	70	33.00	46.70

Ball Valves for flush mounting

2202 with female thread

2202 with lever handle



Technical data:

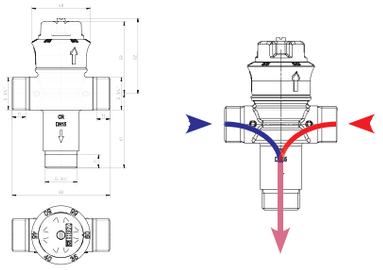
- Body: forged brass acc. to EN 12420, CW617N
- Ball: forged brass acc. to EN 12420, full bore, hard chrome plated, CW617N
- Spindle: turned brass acc. to EN 12164, CW614N
- Handle: Zamak 410 - chrome plated
- Connectors: Female thread acc. ISO 228
- Ball seals: PTFE
- Spindle seals: EPDM 70 ShA

Order number	PN	DN	G	L	A	B	Hmin	Hmax	Sw		
1 **2202** 01	16	15	1/2″	59	24	-	25	40	25	0.230	25
1 **2202** 02	16	20	3/4″	65	24	-	30	45	32	0.345	25
1 **2202** 11	16	15	1/2″	59	-	40	25	40	25	0.240	25
1 **2202** 12	16	20	3/4″	65	-	40	30	45	32	0.355	25

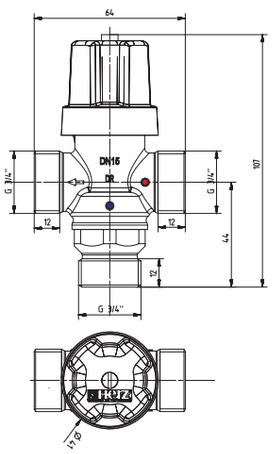
Mixing Valves for drinking water

7766

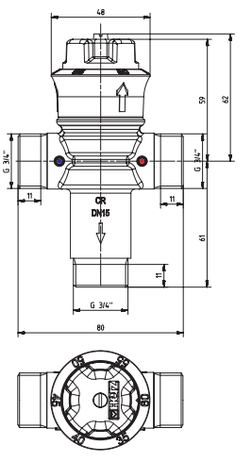
HERZ drinking water mixing valve TMV 2
with bottom mixing outlet 42 l/min at 3 bar water pressure, minimum water flow 4 l/min. Factory setting 45 °C
Setting range 35 - 50 °C +/- 2 K.



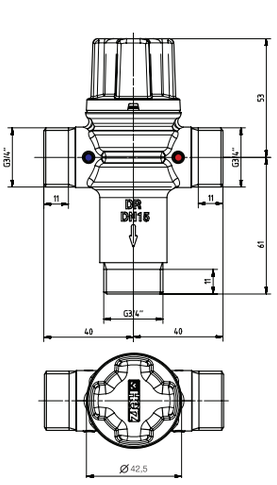
2 **7766** 51



2 **7766** 54



2 **7766** 46



Pressure Relief Safety Valve

2611 -2613

2604 - 2689

Order number	PN	Dim.	Boiler output
1 **2611** 01	2.5	15	50 kW
1 **2612** 01	3	15	50 kW
1 **2613** 01	6	15	50 kW
1 **2604** 02	2.5	20	100 kW
1 **2605** 02	3	20	100 kW
1 **2606** 02	6	20	100 kW
1 **2607** 03	2.5	25	200 kW
1 **2608** 03	3	25	200 kW
1 **2667** 03	6	25	200 kW
1 **2687** 03	8	25	200 kW
1 **2609** 04	2.5	32	350 kW
1 **2610** 04	3	32	350 kW
1 **2669** 04	6	32	350 kW
1 **2689** 04	8	32	350 kW

2611 - 2613
Body made of forged brass, EPDM Diaphragm, cap seals and plastic. Temperature range is from 0°C to +110°C. For boiler output to 50 kW, DN 15. According to TÜV.

2604 - 2606
Body made of forged brass, EPDM Diaphragm, cap seals and plastic. Temperature range is from 0°C to +110°C. For boiler output to 100 kW, DN 15.

2607 - 2687
For boiler output to 200 kW, DN 25.

2609 - 2689
For boiler output to 350 kW, DN 32.

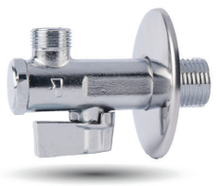
WATER

Angle Valves

1 **2550** 01

1 **2552** 01

1 **2553** 01



1 **2554** 01

HERZ angle valves for potable water have to be used as shut off elements. Field of application are water installations where we need to connect plumbing fittings, flow meter heaters. Angle valves are used wherever the medium flow has to be reliably closed. Angle valve should not be used as regulating element so it has to be fully opened or fully closed (the handle should not be in intermediate position). Angle ball valve 1 2553 01 and 1 2554 01 have integrated filter that allows water filtration.

Taps

Materials:

- Brass
- Chromed
- Outlet with strainer
- Outlet distance 95 mm

Materials:

- Brass
- Chromed
- Hose connection
- Outlet distance 95 mm

Materials:

- Brass
- Chromed
- Hose connection
- Outlet distance 30 mm

Order number
U **H100** 52
U **H101** 51
U **H101** 52

Plastic Composite Pipe PE-RT

Order number	Aluminium wall thickness (mm)	Diameter Wall thickness (mm)	Item Rolls (m)
3 **C160** 20	0.4	16 x 2	200
3 **C200** 20	0.4	20 x 2	100
3 **C260** 30	0.5	26 x 3	50
3 **C320** 30	0.5	32 x 3	50
3 **C400** 30	0.5	40 x 3.5	50

Order number	Aluminium wall thickness (mm)	Diameter Wall thickness (mm)	Item Rolls (m)
3 **C160** 22	0.25	16 x 2	100
3 **C200** 30	0.25	20 x 2	100

Order number	Aluminium wall thickness (mm)	Diameter Wall thickness (mm)	Item Rolls (m)
3 **C101** 30	0.2	10 x 1.3	250
3 **D160** 20	0.2	16 x 2	200

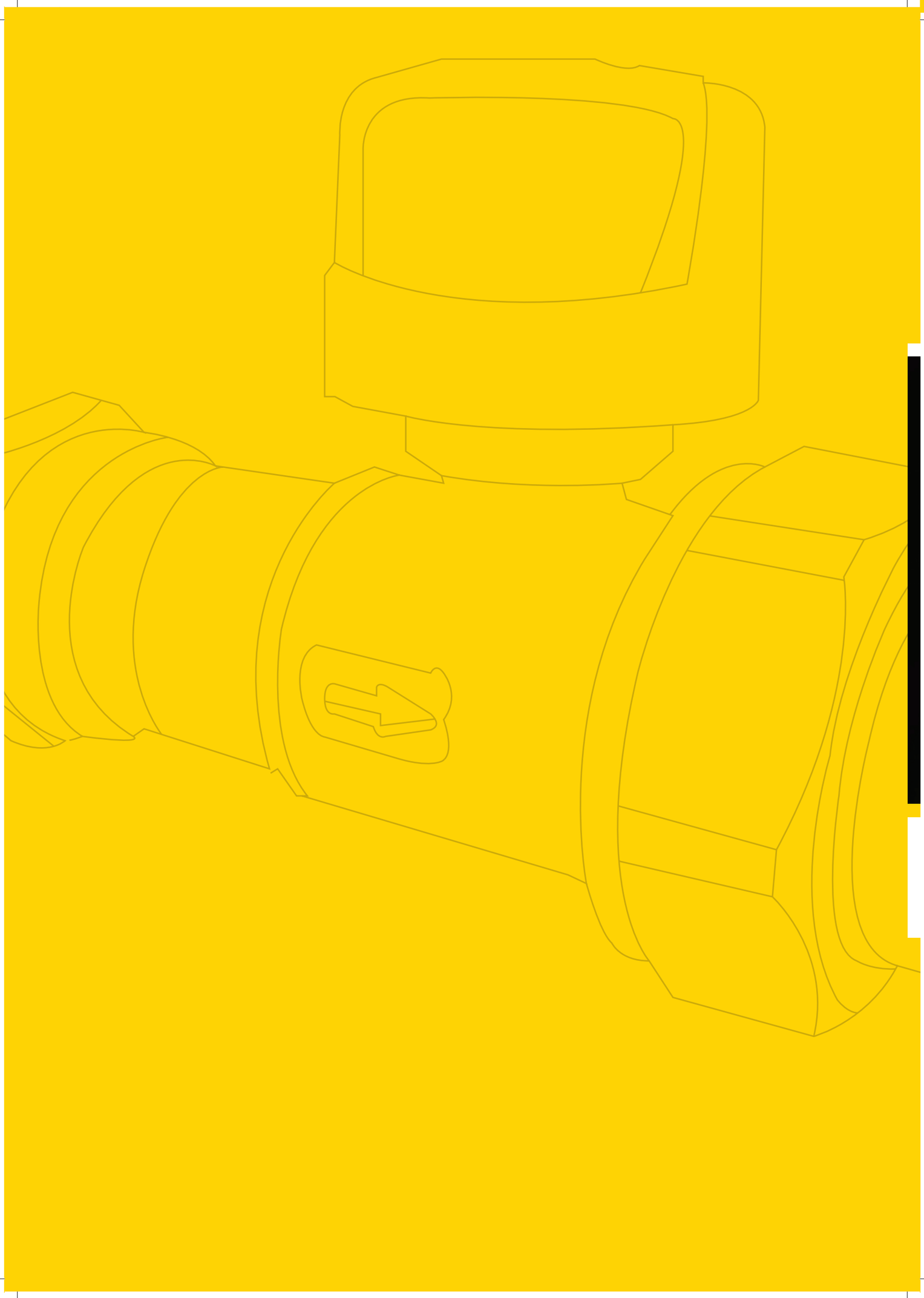
Plastic composite pipe PE-RT/ Al/PE-RT. Multilayer pipe for complex installation tasks in heating, air conditioning and plumbing installations. System tested with HERZ-PIPEFIX press fittings or connectors. Delivered in coils. WRAS approved.

Order number	Aluminium wall thickness (mm)	Diameter Wall thickness (mm)	Item Rods (m)
3 **C160** 34	0.4	16 x 2	5
3 **C200** 34	0.4	20 x 2	5
3 **C260** 35	0.5	26 x 3	5
3 **C320** 35	0.5	32 x 3	5
3 **C400** 36	0.5	40 x 3.5	5
3 **C500** 40	0.6	50 x 4	5
3 **C630** 45	0.8	63 x 4.5	5
3 **C750** 50	0.8	75 x 5	5

Plastic Composite Pipe PE-RT, with Insulation

Order number	Insulation wall thickness (mm)	Diameter Wall thickness (mm)	Item Rolls (m)
3 **C160** 06	6	16 x 2	100
3 **C200** 06	6	20 x 2	50
3 **C260** 06	6	26 x 3	50
3 **C320** 06	6	32 x 3	25
3 **C160** 09	9	16 x 2	100
3 **C200** 09	9	20 x 2	50
3 **C260** 09	9	26 x 3	50
3 **C320** 09	9	32 x 3	25
3 **C160** 13	13	16 x 2	50
3 **C200** 13	13	20 x 2	50
3 **C260** 13	13	26 x 3	25
3 **C320** 13	13	32 x 3	25

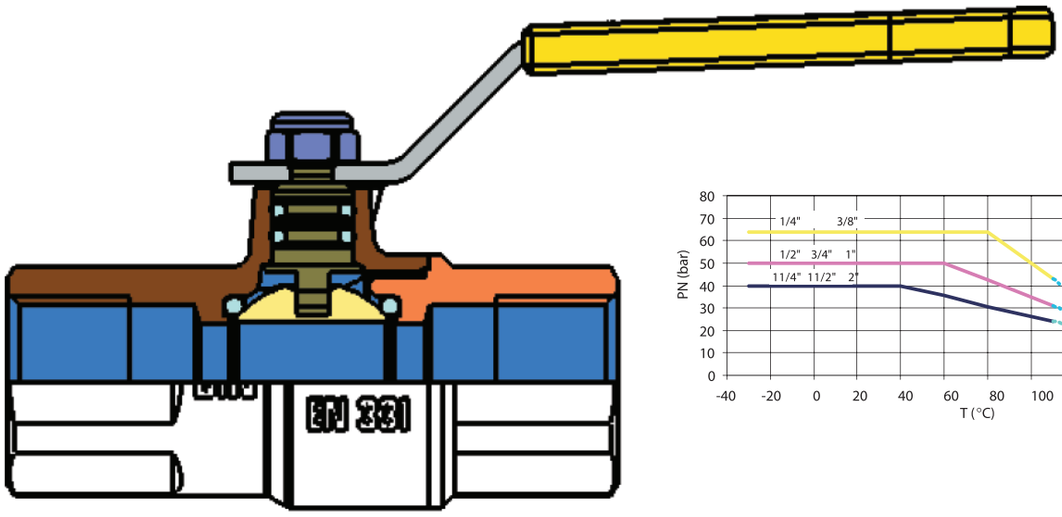
Heating and plumbing pipes with heat-insulation from LDPE foam with PP coating.Thermal conductivity of 0.04 W/mK as per DIN EN 8497. Reaction to fire according to DIN 4102 B1. CFC and HCFC free. Water vapor diffusion number ≥ 6000 to 52 615 DSIN. Outer casing white, black lettering.

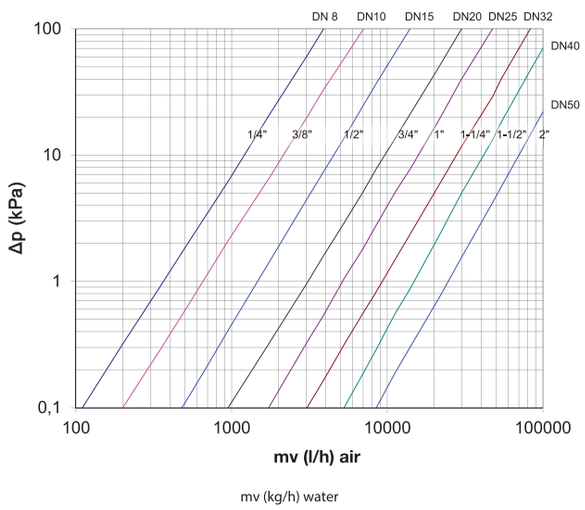


03/ Gas

Quality material, responsible use

GAS

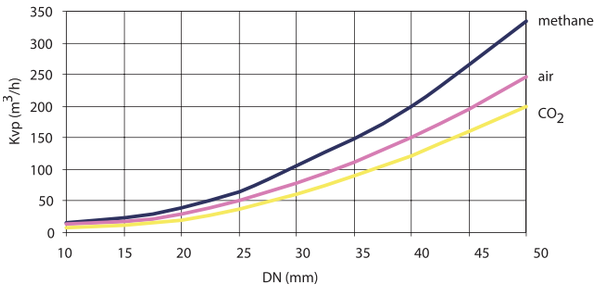




DN	8	10	15	20	25	32	40	50
Kv	3,9	7,1	17	34	55	102	165	270
Kvp	3,6	6,6	15,8	31,5	51	95	153	250

Kv: outflow characteristic (m^3/h) - is the flow of water at temperature 15.5°C, a pressure drop of 1 bar (100 kPa) and a fully open valve.

Kvp: Outflow characteristic (m^3/h) - is the flow of air with density of 1,16 kg/m3 at temperature 15.5°C, a pressure drop of 1 mbar (0,1 kPa) and a fully open valve.

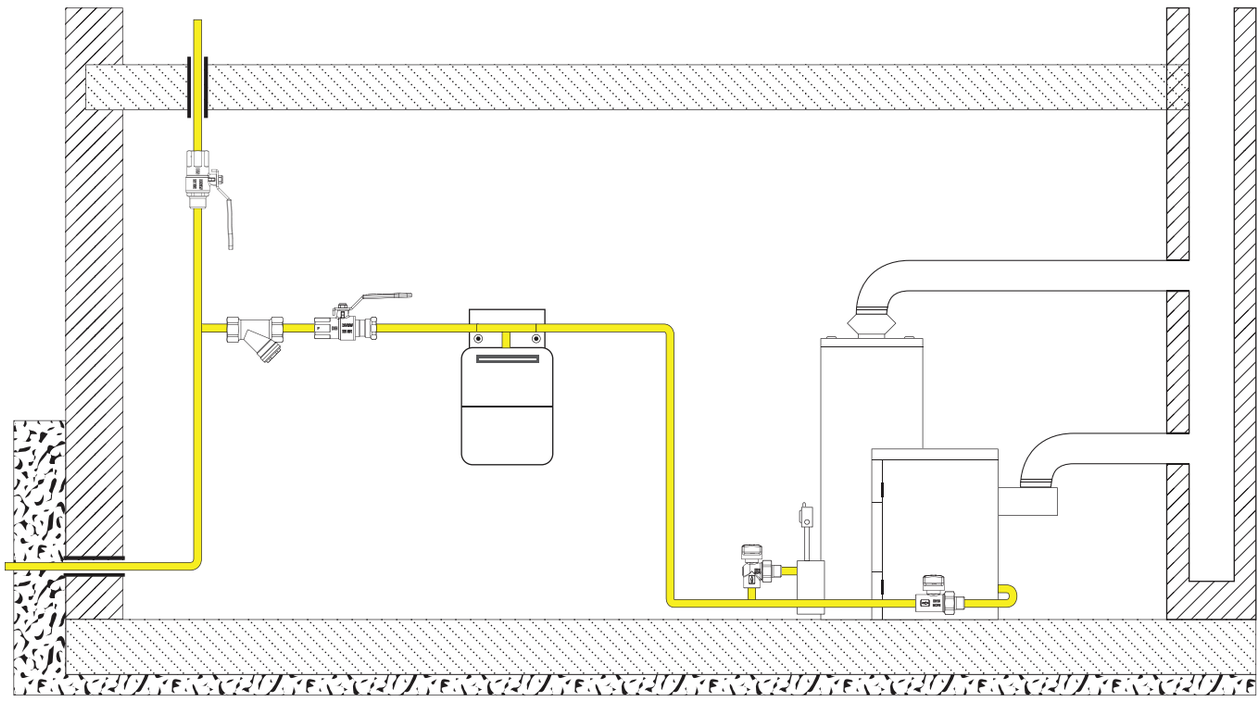


Ball valve for gas is a fitting with unreduced flow, which can be installed into the gas installations with low pressure (in accordance with DIN-DVGW - Table G. 260).

Field of application is in the systems where the medium are explosive combustible gases (natural gas, petroleum gas etc.) up to max. working pressure of 500 kPa (5 bar) and the temperature range of -20°C up to + 60°C (certified according to DIN-DVGW under No. 01-0504-GNE).

These valves are also suitable for general usage (also for other mediums – oil, water, air…) due to standard construction design. In this case, the temperature range is from -20°C up to + 110°C (water 0°C up to 110 ° C) and working pressure up to max. 2500 kPa (25 bar) – according to the PN-T diagram.

In case of fire, ball valves that have integrated TAS cartridge are sealed up to 925°C for at least one hour.



Ball Valve for gas

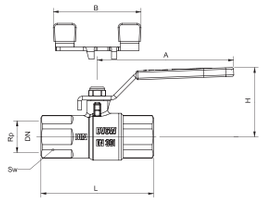
2300 with steer level

2300 with steel T-handle

Technical data:

- Body of brass according to EN 12165
- With O-ring seal for ball and spindle
- Threaded sockets on both sides.
- Suitable for gas installations according to DIN DVGW G 260
- Nominal pressure: PN 1 (HTB 650°C/30 min)
- Operating temperature: -20°C to +60°C

Order number	MOP	PN*	DN	Rp	L	A	H	Sw
1 **2300** 09	5	1	8	1/4"	55	70	41	17
1 **2300** 00	5	1	10	3/8"	60	70	41	21
1 **2300** 01	5	1	15	1/2˝	75	90	43	26
1 **2300** 02	5	1	20	3/4˝	80	90	47	32
1 **2300** 03	5	1	25	1˝	90	135	72	41
1 **2300** 04	5	1	32	1 1/4˝	110	135	75	50
1 **2300** 05	5	1	40	1 1/2˝	120	180	82	55
1 **2300** 06	5	1	50	2˝	140	180	89	70
1 **2300** 19	5	1	8	1/4"	55	60	41	17
1 **2300** 10	5	1	10	3/8"	60	60	41	21
1 **2300** 11	5	1	15	1/2˝	75	60	43	26
1 **2300** 12	5	1	20	3/4˝	80	60	47	32
1 **2300** 13	5	1	25	1˝	90	85	72	41
1 **2300** 14	5	1	32	1 1/4˝	110	85	75	50



T = from -20 °C up to +60 °C

**HTB 650 °C - fireproof (30 min)

GAS

Ball Valve for gas

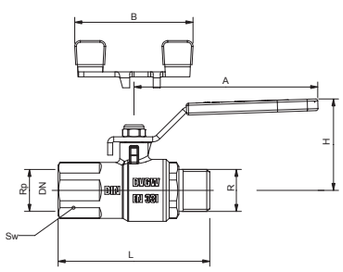
2301 with steer level

2301 with steel T-handle

Technical data:

- Body of brass according to EN 12165
- With O-ring seal for ball and spindle
- Threaded sockets on both sides
- Suitable for gas installations according to DIN DVGW G 260
- Nominal pressure: PN 1 (HTB 650°C/30 min)
- Operating temperature: -20°C to +60°C

Order number	MOP	PN*	DN	Rp - R	L	A	H	Sw
1 **2301** 09	5	1	8	1/4″	55	70	41	17
1 **2301** 00	5	1	10	3/8″	60	70	41	21
1 **2301** 01	5	1	15	1/2″	75	90	43	26
1 **2301** 02	5	1	20	3/4″	80	90	47	32
1 **2301** 03	5	1	25	1″	90	135	61	41
1 **2301** 04	5	1	32	1 1/4″	110	135	66	50
1 **2301** 05	5	1	40	1 1/2″	120	180	86	55
1 **2301** 06	5	1	50	2″	140	180	90	70
1 **2301** 19	5	1	8	1/4″	55	60	41	17
1 **2301** 10	5	1	10	3/8″	60	60	41	21
1 **2301** 11	5	1	15	1/2″	75	60	43	26
1 **2301** 12	5	1	20	3/4″	80	60	47	32
1 **2301** 13	5	1	25	1″	90	85	61	41
1 **2301** 14	5	1	32	1 1/4″	110	85	66	50



T = from -20 °C up to +60 °C

*HTB 650 °C - fireproof (30 min)

Ball valves for gas

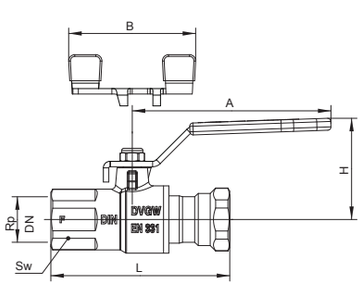
2302 with steel lever

2302 with steel T-handle

Technical data:

- Body of brass according to EN 12165
- With O-ring seal for ball and spindle
- Threaded sockets on both sides
- Suitable for gas installations according to DIN DVGW G 260
- Nominal pressure: PN 1 (HTB 650°C/30 min)
- Operating temperature: -20°C to +60°C

Order number	MOP	PN*	DN	Rp	L	A	H	Sw		
1 **2302** 01	5	1	15	1/2″	98	90	45	26	0.400	25
1 **2302** 02	5	1	20	3/4″	107	90	49	32	0.600	25
1 **2302** 03	5	1	25	1″	133	135	66	41	1.250	20
1 **2302** 11	5	1	15	1/2″	98	60	45	26	0.400	25
1 **2302** 12	5	1	20	3/4″	107	60	49	32	0.600	25
1 **2302** 13	5	1	25	1″	133	85	66	41	1.250	20



T = from -20 °C up to +60 °C

*HTB 925 °C - fireproof (60 min)

Ball Valve for gas

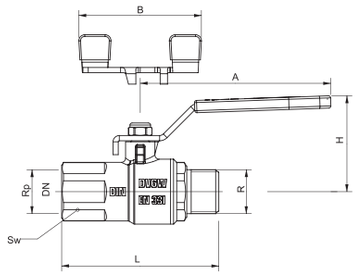
2303 with steer level

2303 with steel T-handle

Specifications:

- Body of brass according to EN 12165
- With O-ring seal for ball and spindle
- Threaded sockets on both sides.
- Suitable for gas installations according to DIN DVGW G 260
- Nominal pressure: PN 1 (HTB 650°C/30 min)
- Operating temperature: -20°C to +60°C

Order number	MOP	PN*	DN	Rp - R	L	A	H	Sw
1 **2303** 09	5	1	8	1/4”	55	70	41	17
1 **2303** 00	5	1	10	3/8”	60	70	41	21
1 **2303** 01	5	1	15	1/2″	75	90	43	26
1 **2303** 02	5	1	20	3/4″	80	90	47	32
1 **2303** 03	5	1	25	1″	90	135	61	41
1 **2303** 04	5	1	32	1 1/4″	110	135	66	50
1 **2303** 05	5	1	40	1 1/2″	120	180	86	55
1 **2303** 06	5	1	50	2″	137	180	90	70
1 **2303** 19	5	1	8	1/4”	55	60	41	17
1 **2303** 10	5	1	10	3/8”	60	60	41	21
1 **2303** 11	5	1	15	1/2″	75	60	43	26
1 **2303** 12	5	1	20	3/4″	80	60	47	32
1 **2303** 13	5	1	25	1″	90	85	61	41
1 **2303** 14	5	1	32	1 1/4″	110	85	66	50

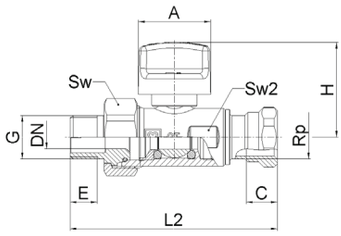


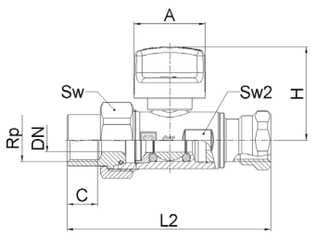
T = from -20 °C up to +60 °C

*HTB 650 °C - fireproof (30 min)

Ball Valve for connecting devices, straightway with plastic grip

2362





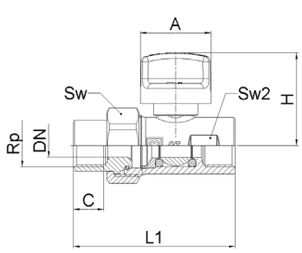
Order number	DN	MOP	PN*	Rp	G	L2	C	E	A	H	Sw	Sw2		
1 **2362** 21	15	5	1	1/2	1/2	100	15	13.2	35	46	34	26	0.322	25
1 **2362** 22	20	5	1	1/2	-	100	15	-	35	46	34	26	0.330	25
1 **2362** 23	25	5	1	3/4	-	112	16.3	-	35	49	41	30	0.432	25
1 **2362** 31	15	5	1	1	-	130	19.1	-	35	52	48	37	0.719	16

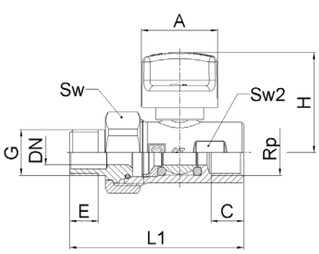
T = from -20 °C up to +60 °C

*HTB 650 °C - fireproof (30 min)

Ball Valve for connecting devices, straightway with plastic grip

2363





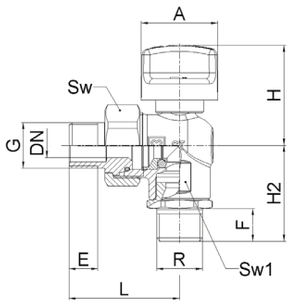
Order number	DN	MOP	PN*	Rp	G	L1	C	E	A	H	Sw	Sw2		
1 **2363** 01	15	5	1	1/2	1/2	100	15	13.2	35	46	34	26	0.288	25
1 **2363** 11	15	5	1	1/2	-	100	15	13.2	35	46	34	26	0.295	25

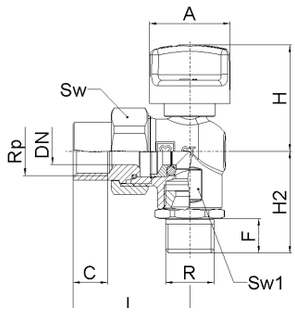
T = from -20 °C up to +60 °C

*HTB 650 °C - fireproof (30 min)

Ball Valve for connecting devcies, angle with plastic grip

2362





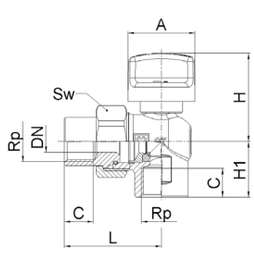
Order number	DN	MOP	PN*	G	Rp	L	C	E	F	A	H	H2	Sw	Sw1		
1 **2362** 41	15	5	1	1/2	1/2	51	15	13.2	15	35	46	44	34	26	0,309	25
1 **2362** 42	20	5	1	-	1/2	51	15	-	15	35	46	44	34	26	0,309	25
1 **2362** 43	25	5	1	-	3/4	57	16,3	-	16.3	35	49	49	41	30	0,449	25
1 **2362** 51	15	5	1	-	1	70	19,1	-	19.1	35	52	57	48	37	0,738	16

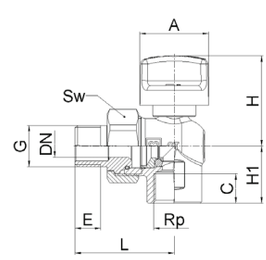
T = from -20 °C up to +60 °C

*HTB 650 °C - fireproof (30 min)

Ball Valve for connecting devcies, angle with plastic grip

2363





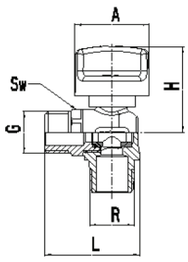
Order number	DN	MOP	PN*	Rp	G	L	C	E	F	A	H	H1	Sw		
1 **2363** 21	15	5	1	1/2	1/2	51	15	13.2	15	35	46	29	34	0,309	25
1 **2363** 31	15	5	1	1/2	-	51	15	13.2	15	35	46	29	34	0,309	25

T = from -20 °C up to +60 °C

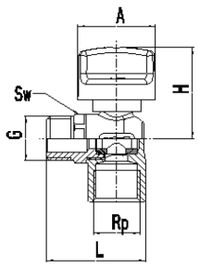
*HTB 650 °C - fireproof (30 min)

Ball Valve with security closing T-handle with plastic grip

2362



2372



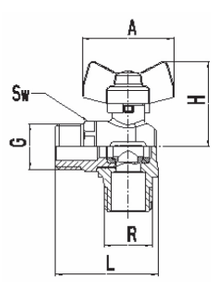
Order number	DN	MOP	PN*	G	Rp	L	A	H	Mt (Nm)	Sw
1 **2362** 00	10	5	1	1/2	1/2	44	35	43	75	21
1 **2372** 01	10	5	1	1/2	1/2	44	35	43	75	21

T = from -20 °C up to +60 °C

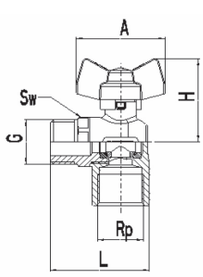
*HTB 650 °C - fireproof (30 min)

Ball Valve with duraluminium T-handle, angle version

2362



2372



Order number	DN	MOP	PN*	G	Rp	L	A	H	Mt (Nm)	Sw
1 **2362** 10	10	5	1	1/2	1/2	44	40	39	75	21
1 **2372** 11	10	5	1	1/2	1/2	44	40	39	75	21

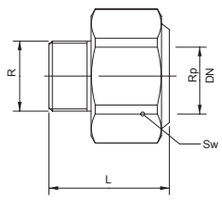
T = from -20 °C up to +60 °C

*HTB 925 °C - fireproof (60 min)

Accessories

Insulating Nipple for gas

2000

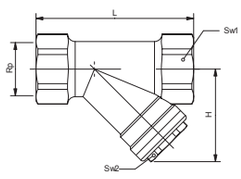


Order number	PN	DN	Rp	L	Sw		
1 **2000** 02	5	20	3/4″	45	46	0.250	1

T = -20 °C…+60 °C

Strainer for gas

2319



Specifications:
Body of brass according to EN 12165
Threaded sockets on both sides
Suitable for gas installations according to DIN-DVGW G 260 table
Nominal pressure: PN 5
Operating temperature: -20°C to +60°C

Order number	PN	Rp	L	Sw1	Sw2	H		Kvp		
1 **2319** 01	5	1/2″	68	25	22	37	0.050	2.30	0.170	1
1 **2319** 02	5	3/4″	80	32	24	46	0.050	4.20	0.280	1
1 **2319** 03	5	1″	90	41	25	55	0.050	6.80	0.510	1

T = from -20 °C up to +60 °C

Pipes for gas

Order number	PN	Diameter Wall thickness (mm)	Item Rolls (m)
G **1160** 20	0.1	16 x 2	200
G **1200** 20	0.1	20 x 2	100
G **1260** 20	0.1	26 x 3	50
G **1320** 20	0.1	32 x 3	50

Aluminium core, in reels 50 metres, with yellow extra strong surface RAL 1201. Operating temperature -20 °C to +60 °C, max. Operating pressure 100 mbar.

Order number	PN	Diameter Wall thickness (mm)	Item Rolls (m)
G **1160** 21	0.1	16 x 2	120
G **1200** 21	0.1	20 x 2	120
G **1260** 21	0.1	26 x 3	120
G **1320** 21	0.1	32 x 3	50

Aluminium core, in 5 metre length, with yellow extra strong surface RAL 1201. Operating temperature -20 °C to +60 °C, max. Operating pressure 100 mbar.

Notes

Notes

Certificate of Guarantee

1. Definition of Terms and Scope of Validity

1.1. In order to be entitled to claim services under the present Certificate of Guarantee, the claiming party must hold a trade licence for the installation of low-pressure central heating systems and hot water preparation plants of the upper and lower categories or a trade licence for gas fitters and plumbers.

1.2. Under the present Certificate of Guarantee „Products" shall designate all heating components manufactured by us after May 1, 2015, bought new by the party entitled to raise a claim either directly from us or directly from one of our authorized dealers in Austria, unless these components have been exempted from the validity of the Certificate of Guarantee by express declaration to the party entitled to raise a claim or are generally exempted from such guarantee. There are special provisions for electronic and electric products such as HERZ-Electronic thermostats and actuating drives, HERZ-Actuating drives, HERZ-Room temperature controllers, HERZ transformers and wireless control systems and devices, which are not covered by the Certificate of Guarantee. Furthermore, wear parts of HERZ components such as seals are not covered by the present Certificate of Guarantee.

1.3. A case of damage in the sense of the Certificate of Guarantee occurs when a customer of a party entitled to raise claims with HERZ raises a warranty claim against the said party for any damage caused by an error in design or a defect in manufacturing or materials of the pro-ducts.

1.4. The geographic validity of the Certificate of Guarantee shall be limited to places within Europe.

2. Extend of Services rendered under the Certificate of Guarantee

We shall render the following services under the present Certificate of Guarantee (excluding any further claims):

2.1. Replacement free of charge of the products or product components required repairing the damage, free place of damage.

2.2. According to our choice:

a) performing the required dismantling /disassembly and assembly/installation of products or product components or
b) repairing the initial products or product components or
c) paying the costs fort he services as mentioned above.

2.3. Repairing the immediate material damage caused by the defective products or paying the costs for the services as mentioned above.

2.4. Damages for direct personal injury caused by the defective products.

2.5. Our liability according 2.1. to 2.3. is limited to € 500,000 per claim.

2.6. Without prejudice to the provisions of item 4.1. our liability shall be limited in terms of time to claims arising within a period of 5 years after manufacturing of the products causing the damage.

2.7. Our liability is limited to claims arising out of errors in design, defects in manufacturing or materials of the products and based on the absence of characteristics which have either been guaranteed by us or which can be expected in accordance with the state of technology or with trade practice.

3. Obligations of the Party Entitled to Raise Claims

It is a condition precedent for the implementation of the present Certificate of Guarantee that the party entitled to raise claims meet the below mentioned obligations. Failure to meet any or several of these obligations shall relieve HERZ of any and all obligations under the present Guarantee.

3.1. During installation and use of the products it is imperative to observe our instructions for installation and maintenance valid at the moment of installation and laid down in the brochures, standard sheets, as well as our information regarding the scope of application of the products. Furthermore, it is imperative to proceed with due care according to the state of technology, particularly during maintenance.

3.2. As soon as the party entitled to raise a claim detects or learns of a case of damage, it shall forthwith inform HERZ of such damage (not later than on the 3rd working day thereafter) by fax, telex or cable and shall make available to us all information requested by us. The information shall be submitted in writing upon our request.

3.3. The party entitled to raise a claim shall make sure that the representatives of our company and the agents of our insurance company be granted access to the place of damage immediately after giving notice of the claim and shall take all appropriate measures to determine the cause and scope of the damage. In particular, the party entitled to raise a claim shall keep and make available the products or product components which caused the damage.

3.4. The burden of proof lies with the party who suffered the damage. The party entitled to raise a claim shall not acknowledge any obligation to damages neither with regard to its basis nor to its extend, neither in its own name nor on our behalf. Any declaration extending the scope of damages offered by the present Certificate of Guarantee and by the applicable legal provisions made by the party entitled to raise a claim before or after the occurrence of damage, are not admitted and shall not be binding on us.

4. Period of Validity and Formal Provisions

4.1. The present Certificate of Guarantee shall cover claims for damage occurring between May 1, 2020 and April 30, 2025. We reserve the right to extend this period.

5. Place of Fulfilment, Jurisdiction, Applicable Law

5.1. The place of fulfilment shall be Vienna. The court having subject-matter jurisdiction for our company in Vienna shall have exclusive jurisdiction. Any disputes arising from the present Certificate of Guarantee shall be settled according to Austrian Law. The application of the UN-Convention on Contracts for the International Sale of Goods is expressly excluded.

Vienna, June 2020

Terms and Conditions of Sale, Delivery and Payment

1. Offers, Acknowledgement of Orders, Conclusion of Contracts

1.1. All offers are without obligation. We reserve the right to modify, supplement or discontinue our production at any time. We are entitled to accept only partial orders or to refuse them without giving a reason.

1.2. Our written acknowledgement of order constitutes a contract, an acknowledgement of order by faxsimile is sufficient also. The content of the acknowledgement of order shall at the same time be the content of the contract unless the customer raises an objection against it immediately after receipt. Otherwise, our acknowledgement of order and our Terms and Conditions of Sale, Delivery and Payment shall be deemed to have been accepted. In case of claim against the order confirmation, its content becomes a contract if the customer accepts the delivery and/or makes a payment.

1.3. After the acknowledgement of order has been sent, the order placed with us no longer can be changed or cancelled.

1.4. The present Terms and Conditions of Sale, Delivery and Payment shall supersede any purchasing conditions of our customers in any case. They also apply to any future business with the customer.

1.5. Prices are understood to be from the factory, unpackaged, carriage forward and without VAT.

1.6. In case of an increase in costs during the period between the acknowledgement of order and delivery, we shall be entitled to make the respective price adjustments.

1.7. In case that a component of a fitting ordered is not needed, the price deduction shall not be made according to the component price but according to our price calculation.

1.8. Declarations and announcements of HERZ towards our contract partners come into force with sending these declarations and announcements to the mailing address known to us. This is also valid if the mailing address has been changed and has not been announced immediately.

1.9. To be considered valid, changes and additions to the contract must be agreed and confirmed in writing by persons with representative status who are entered in the company register of our firm. Our other staff are not authorised to arrange changes or additional agreements.

2. Conditions of Payment

2.1. As long as nothing else is given in the order confirmation, payments are net cash at receipt of the invoice and without any discount.

2.2. In case of default payment we reserve the right to demand payment of default interest at a rate of 10% above the then current Austrian bank rate (per year), however not less than 1% per month. Only payments made to the payment entity specify in the invoice will be recognised. In case of bank transfers, payment shall be deemed to have been made only when the amount of the invoice has been irrevocably credited to our account.

2.3. Bills of exchange, cheques and payments by money order will be recognised only on account of payment. In this event a discount is not permitted even for special discount arrangements.

2.4. In case of payment by accepted bill or customer's bill, the discount charges shall be borne by the debtor.

2.5. The date of the invoice shall be relevant for the date of payment in any case, even if goods are received with a delay for reasons not to be attributed to us.

2.6. In the event that payment is not made by the due date or in case of deteriorating financial soundness of the customer or on other important reasons, we shall be entitled at our discretion to repudiate the contract or to demand immediate payment of any and all debts irrespective of the term of payment agreed upon, all this without any claim for fulfilment or damages arising against us.

3. Retention of Title

3.1. The goods supplied by us shall remain our property until payment in full has been made for any and all goods supplied. This shall also apply to the payment of any bills of exchange accepted in payment by us. In the event of re-sale for cash, the re-sale proceeds from this separate retention by the customer come to us and oblige the customer to enter a valid note in the accounts (anticipated ownership). In the case of manufacturing our retention of title (proportionate) is the end product. The customer must inform their buyer at re-sale about the existing retention of title and all other security laws agreed.

3.2. The buyer must inform us immediately if third parties raise claims against our goods supplied under our retention of title or bring legal actions. Any costs resulting from legal consequences are to be borne by the buyer.

4. Packing and Dispatch

4.1. The goods will be packed to commercial standards at the buyer's expense. Packing materials will not be taken back. The packing shall be dimensioned assuming customary transport conditions.

4.2. The goods will be dispatched ex-works at the risk of the buyer, even in case of delivery freight prepaid.

4.3. The seller shall be obliged to take out insurance only if and to the extent that this has been agreed upon in writing.

5. Modification of Models

5.1. We reserve the right to make design modifications, to change tolerances and to make improvements.

5.2. In case of special designs manufactured according to customer sample, model or drawing, we reserve the right to supply up to 5 % more or less than the quantity ordered.

6. Complaints

6.1. With regard to any defects or damage that can be recognised during proper inspection upon receipt, not recognizable defects or damages have to be reprehend immediately after their occurrence, a complaint shall be filed immediately after receipt of goods. However, any warranty claim shall expire three months after delivery.

6.2. In addition, in case of deviations in the number of units supplied or in weight, a complaint shall be filed with the railway company or the forwarding agent (carrier) upon receipt of the goods, and a certification to support any such difference shall be obtained. Any defective units shall be returned to us without delay freight prepaid.

7. Warranty

7.1. We will perform our warranty obligation by replacing free of charge any items which become totally inoperative within a period of three months as a result of defective materials or deficiencies in workmanship, provided that the rejected items are returned within 4 months from delivery.

8. Returned Goods

8.1. Returned goods will only be accepted with our prior written consent and only if sent free our works in Vienna without any damage or defect.

8.2. Return of items made to order will not be accepted in any case.

9. Default in Delivery and Release from the Delivery Commitment

9.1. The obligation to deliver and to adhere to the delivery period shall be suspended by any extraordinary events and circumstances not to be attributed to us which causes a relevant interruption of operations or makes the dispatch of goods impossible.

9.2. In the event that dispatching of goods is impossible, we shall be entitled to store any goods already manufactured at the expense and risk of the buyer. In that case, the goods will be invoiced to the buyer as if they had already been supplied.

9.3. If we are in default in delivery, the buyer shall grant a reasonable period of grace of not less than 6 weeks. The buyer shall not be entitled to cancel the contract after we have initiated production of the goods ordered – even after having granted a period of grace.

10. Quality of a Consignment

10.1. The quality of a consignment cannot be assessed on the basis of the quality of individual items.

11. Damages, Limitation of Warranty

11.1. The amount of any claims is limited according to the net invoice value of the item in question.

11.2. We are entitled to settle any guarantee claims through the provision of replacement parts. No claims can be made for price reductions.

11.3. We shall not recognise or reimburse any claims for damages with respect to installation costs, incipient processing costs, maintenance costs, etc. in any case.

11.4. Claims for damages by the customer are excluded, whatever the legal reasons, particularly due to delays, impossibility of attainment, positive breach of a claim, debts at conclusion of a contract, damage consequential to defects and defects due to improper handling, as long as they are intentional or do to gross negligence on our part. In the event of intent or gross negligence the customer must give proof of this. Information issued by us (installation and maintenance instructions, details of areas of use for products, etc.) must be strictly adhered to. Where instructions are disregarded or ignored, the official conditions release us from any liability.

11.5. We do not assume liability for any loss or damage resulting from improper handling or use, overstraining or natural wear. Furthermore, we do not assume liability with respect to any loss or damage caused by negligence nor any indirect or consequential loss.

11.6. Our liability for material damage due to a production fault according to the Product Liability Act (Produkthaftungsgesetz) shall be excluded for all companies participating in the production and distribution of our products, as well as for all buyers of our products who are entrepreneurs. The parties to contracts with us who are entrepreneurs undertake to transfer this exoneration clause to their customers to the extent that they on their part are entrepreneurs and as far as our products are concerned.

12. Place of Fulfilment and Jurisdiction

12.1 The place of fulfilment for all contract demands shall be Vienna, if the product is taken from Vienna factory; if the product is taken from Kemeten factory, Kemeten is a place of fulfilment.

12.2. For partners from the European Union countries as well as from the European Economic Area and for the partners with headquarter situated in a country, which has an enforcement agreement with Austria the court having subjectmatter jurisdiction in Vienna is agreed as a place of fulfilment for all contract demands.

12.3. For the partners from countries, which do not fall under the point 12.2 the court having subjektmatter jurisdiction in Vienna is agreed as a place of fulfilment. HERZ reserves the right to sue for the contract demand in each case in the responsible court.

12.4. In subsidiarity to these Terms and Conditions of Sale, Delivery and Payment, Austrian legal provisions are to be applied exclusively. The application of the UN-Convention on Contracts for the International Sale of Goods is expressly excluded.

Selection Matrix for Actuators

			F 7712 90 24 V modulating 500 N, 15 mm	F 7712 91 24 V modulating 1000 N, 20 mm	F 7712 92 24 V modulating 2500 N, 40 mm	F 7712 93 24 V modulating 1500 N, 20 mm	F 7712 94 24 V modulating 12000 N, 65 mm	F 7712 95 24 V open-close, 3 Pt. 500 N, 15 mm
Combi Valves	DN	kvs						
F 4006 71 F 4006 90	15	2,5	♡					♡
F 4006 72 F 4006 91	15	4	♡					♡
F 4006 73 F 4006 92	25	6,3	♡					♡
F 4006 93 F 4006 53	25	8	♡					♡
F 4006 74 F 4006 94	32	12	♡					♡
F 4006 75 F 4006 95 F 4006 61	40	20		♡				
F 4006 80 F 4006 96 F 4006 62	50	32		♡				
F 4006 81 F 4006 97 F 4006 63	65	50			♡			
F 4006 82 F 4006 98 F 4006 64	80	80			♡			
F 4006 83 F 4006 99 F 4006 65	100	125			♡			
F 4006 84 F 4006 10 F 4006 66	125	180			♡			
F 4006 39	15	1,6	♡					♡
F 4006 40	15	2,5	♡					♡
F 4006 41	15	4	♡					♡
F 4006 42	20	6,3	♡					♡
2-Port Valves								
F 4035 01 F 4035 40	15	1	♡					♡
F 4035 11 F 4035 51	15	1,6	♡					♡
F 4035 21 F 4035 61	15	2,5	♡					♡
F 4035 31 F 4035 71	15	4	♡					♡
F 4035 03 F 4035 43	25	6,3	♡					♡
F 4035 13 F 4035 53	25	10	♡					♡
F 4035 04 F 4035 44	32	16		♡				
F 4035 05 F 4035 45	40	25		♡				
F 4035 06 F 4035 46	50	40			♡			
F 4035 16 F 4035 56	50	40				♡*		
F 4035 07 F 4035 47	65	63			♡			
F 4035 08 F 4035 48	80	100			♡			
F 4035 09 F 4035 49	100	160			♡			
F 4035 10 F 4035 50	125	250					♡	
F 4035 41 F 4035 52	150	330					♡	
3-Port Valves								
F 4037 01	15	1	♡					♡
F 4037 11	15	1,6	♡					♡
F 4037 21	15	2,5	♡					♡
F 4037 31	15	4	♡					♡
F 4037 03	25	6,3	♡					♡
F 4037 13	25	10	♡					♡
F 4037 04	32	16		♡				
F 4037 05	40	25		♡				
F 4037 06	50	40			♡			
F 4037 16	50	40				♡*		
F 4037 07	65	63			♡			
F 4037 08	80	100			♡			
F 4037 09	100	160			♡			
F 4037 10	125	250					♡	
F 4037 41	150	330					♡	

*Combination of Valve and Actuater available from Q1/2015.

Selection Matrix for Actuators

F 7712 96 24 V open-close, 3 Pt. 1000 N, 20 mm	F 7712 97 24 V open-close, 3 Pt. 1500 N, 20 mm	F 7712 98 24 V open-close, 3 Pt. 2500 N, 40 mm	F 7712 81 230 V open-close, 3 Pt. 500 N, 15 mm	F 7712 82 230 V open-close, 3 Pt. 1000 N, 20 mm	F 7712 83 230 V open-close, 3 Pt. 1500 N, 20 mm	F 7712 84 230 V open-close, 3 Pt. 2500 N, 40 mm	F 7712 85 230 V open-close, 3 Pt. 12000 N, 65 mm
			♡				
			♡				
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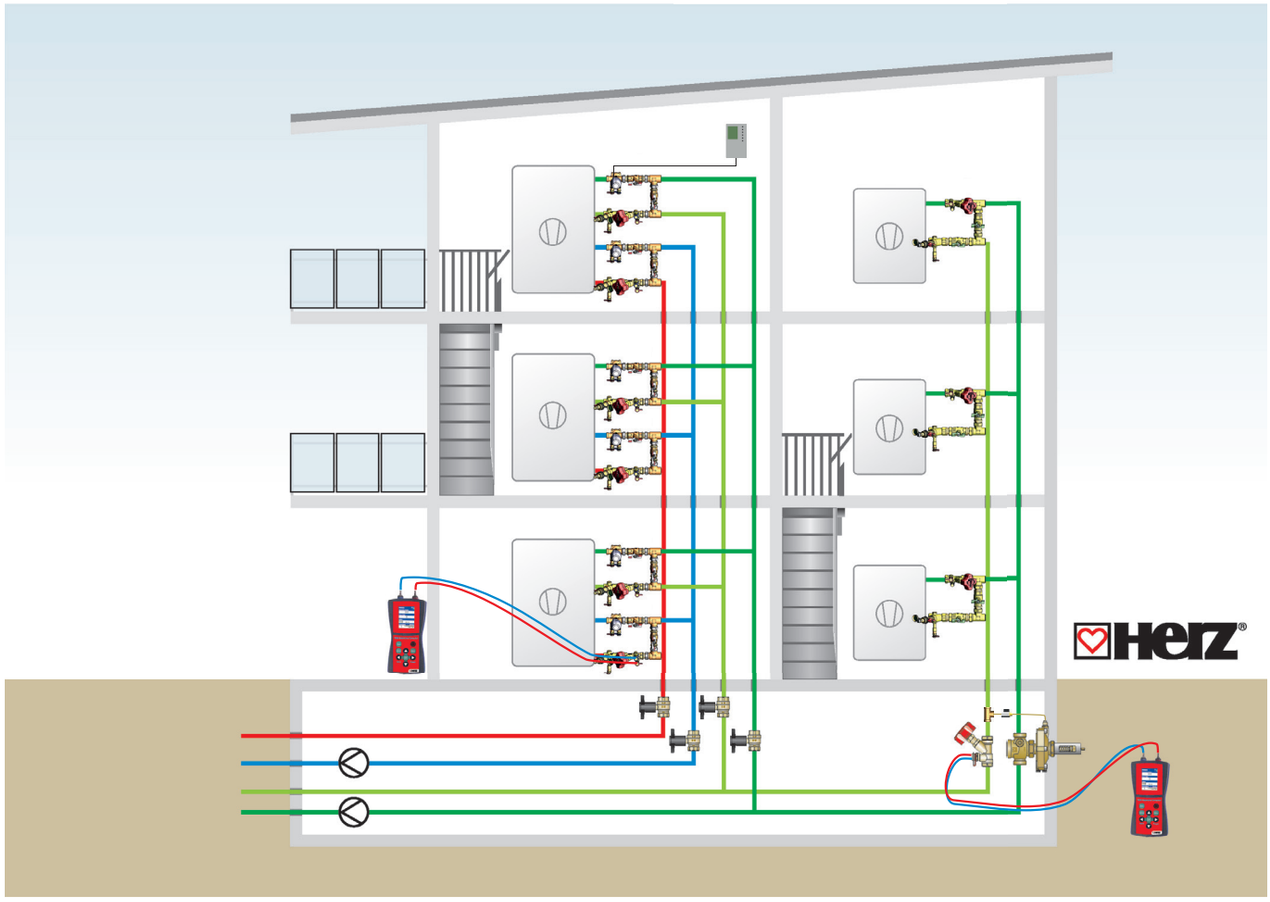
Selection Matrix for Actuators

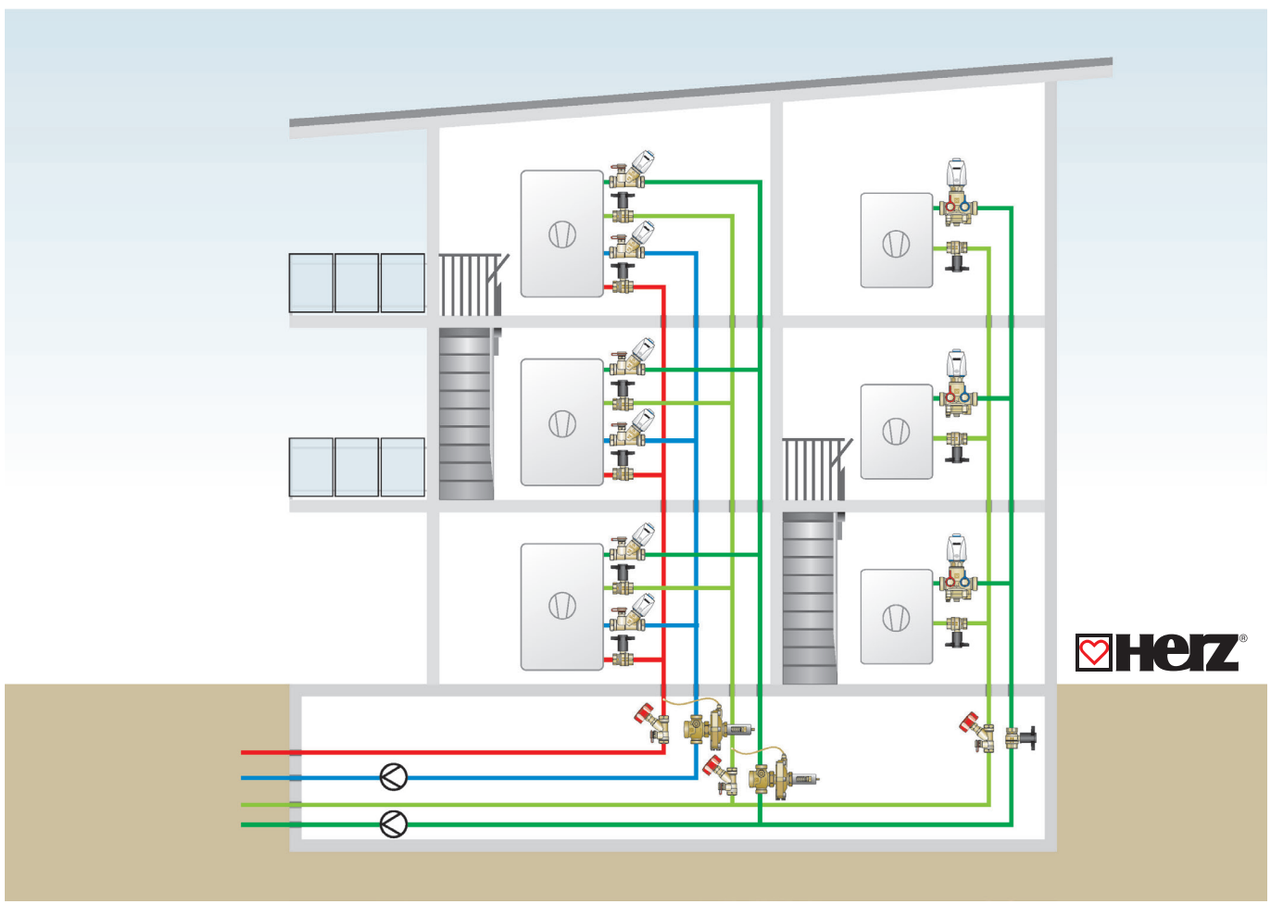
			1 **7712** 29 24 V continuous, 2-3-point 500 N, 20 mm	1 **7712** 31 24 V continuous, 2-3-point 1000 N, 20 mm	1 **7712** 32 24 V continuous, 2-3-point 2500 N, 40 mm	1 **7712** 21 24 V continuous, 2-3-point 2500 N, 40 mm	1 **7712** 28 230 V 2, 3-point 500 N, 20 mm
Combi valve	DN	max. m³/h					
F **4006** 71	15	2,5	1 **7712** 20 *				1 **7712** 20 *
F **4006** 90			1 **7712** 20 *				1 **7712** 20 *
F **4006** 72	15	4	1 **7712** 20 *				1 **7712** 20 *
F **4006** 91			1 **7712** 20 *				1 **7712** 20 *
F **4006** 73	25	6,3	1 **7712** 20 *				1 **7712** 20 *
F **4006** 92			1 **7712** 20 *				1 **7712** 20 *
F **4006** 93	25	8	1 **7712** 20 *				1 **7712** 20 *
F **4006** 53			1 **7712** 20 *				1 **7712** 20 *
F **4006** 74	32	12	1 **7712** 20 *				1 **7712** 20 *
F **4006** 94			1 **7712** 20 *				1 **7712** 20 *
F **4006** 75	40	20	1 **7712** 20 *				1 **7712** 20 *
F **4006** 95			1 **7712** 20 *				1 **7712** 20 *
F **4006** 80	50	32	1 **7712** 20 *				1 **7712** 20 *
F **4006** 96			1 **7712** 20 *				1 **7712** 20 *
F **4006** 62			1 **7712** 20 *				1 **7712** 20 *
F **4006** 81	65	50				Direct installation	
F **4006** 97						Direct installation	
F **4006** 63			1 **7712** 20 *				1 **7712** 20 *
F **4006** 82	80	80				Direct installation	
F **4006** 98						Direct installation	
F **4006** 64				1 **7712** 17 *			
F **4006** 83	100	125				Direct installation	
F **4006** 99						Direct installation	
F **4006** 65				1 **7712** 17 *			
F **4006** 84	125	180				Direct installation	
F **4006** 10						Direct installation	
F **4006** 66						Direct installation	
F **4006** 56	125					Direct installation	
F **4006** 67	150					Direct installation	
F **4006** 57	150					Direct installation	
F **4006** 48	200UHF					Direct installation	
F **4006** 58	200HF					Direct installation	
F **4006** 68	200SF					Direct installation	
F **4006** 69	250					Direct installation	
F **4006** 39	15	1,6	1 **7712** 20 *				1 **7712** 20 *
F **4006** 40	15	2,5	1 **7712** 20 *				1 **7712** 20 *
F **4006** 41	15	4	1 **7712** 20 *				1 **7712** 20 *
F **4006** 42	20	6,3	1 **7712** 20 *				1 **7712** 20 *
2-port valves	DN	kvs					
F **4035** 01	15	1	1 **7712** 20 *				1 **7712** 20 *
F **4035** 40			1 **7712** 20 *				1 **7712** 20 *
F **4035** 11	15	1.6	1 **7712** 20 *				1 **7712** 20 *
F **4035** 51			1 **7712** 20 *				1 **7712** 20 *
F **4035** 21	15	2.5	1 **7712** 20 *				1 **7712** 20 *
F **4035** 61			1 **7712** 20 *				1 **7712** 20 *
F **4035** 31	15	4	1 **7712** 20 *				1 **7712** 20 *
F **4035** 71			1 **7712** 20 *				1 **7712** 20 *
F **4035** 03	25	6.3	1 **7712** 20 *				1 **7712** 20 *
F **4035** 43			1 **7712** 20 *				1 **7712** 20 *
F **4035** 13	25	10	1 **7712** 20 *				1 **7712** 20 *
F **4035** 53			1 **7712** 20 *				1 **7712** 20 *
F **4035** 04	32	16		1 **7712** 17 *			
F **4035** 44				1 **7712** 17 *			
F **4035** 05	40	25		1 **7712** 17 *			
F **4035** 45				1 **7712** 17 *			
F **4035** 16	50	40		1 **7712** 17 *			
F **4035** 56				1 **7712** 17 *			
F **4035** 07	65	63		1 **7712** 17 *			
F **4035** 47					Direct installation		
F **4035** 08	80	100		1 **7712** 17 *			
F **4035** 48					Direct installation		
F **4035** 09	100	160			Direct installation		
F **4035** 49					Direct installation		
F **4035** 10	125	250			Direct installation		
F **4035** 50					Direct installation		
F **4035** 41	150	330			Direct installation		
F **4035** 52					Direct installation		
3-port valves	DN	kvs					
F **4037** 01	15	1	1 **7712** 20 *				1 **7712** 20 *
F **4037** 11	15	1.6	1 **7712** 20 *				1 **7712** 20 *
F **4037** 21	15	2.5	1 **7712** 20 *				1 **7712** 20 *
F **4037** 31	15	4	1 **7712** 20 *				1 **7712** 20 *
F **4037** 03	25	6.3	1 **7712** 20 *				1 **7712** 20 *
F **4037** 13	25	10	1 **7712** 20 *				1 **7712** 20 *
F **4037** 04	32	16		1 **7712** 17 *			
F **4037** 05	40	25		1 **7712** 17 *			
F **4037** 16	50	40		1 **7712** 17 *			
F **4037** 07	65	63		1 **7712** 17 *			
F **4037** 08	80	100		1 **7712** 17 *			
F **4037** 09	100	160			Direct installation		
F **4037** 10	125	250			Direct installation		
F **4037** 41	150	330			Direct installation		
Mixers	DN						
1 **2137** 01	15						
1 **2137** 02	20						
1 **2137** 03	25						
1 **2137** 04	32						
1 **2137** 05	40						
1 **2137** 06	50						
Ball valves	DN						
1 **2117** 11	15						
1 **2117** 12	20						
1 **2117** 13	25						
1 **2117** 14	32						
1 **2117** 15	40						
1 **2117** 16	50						

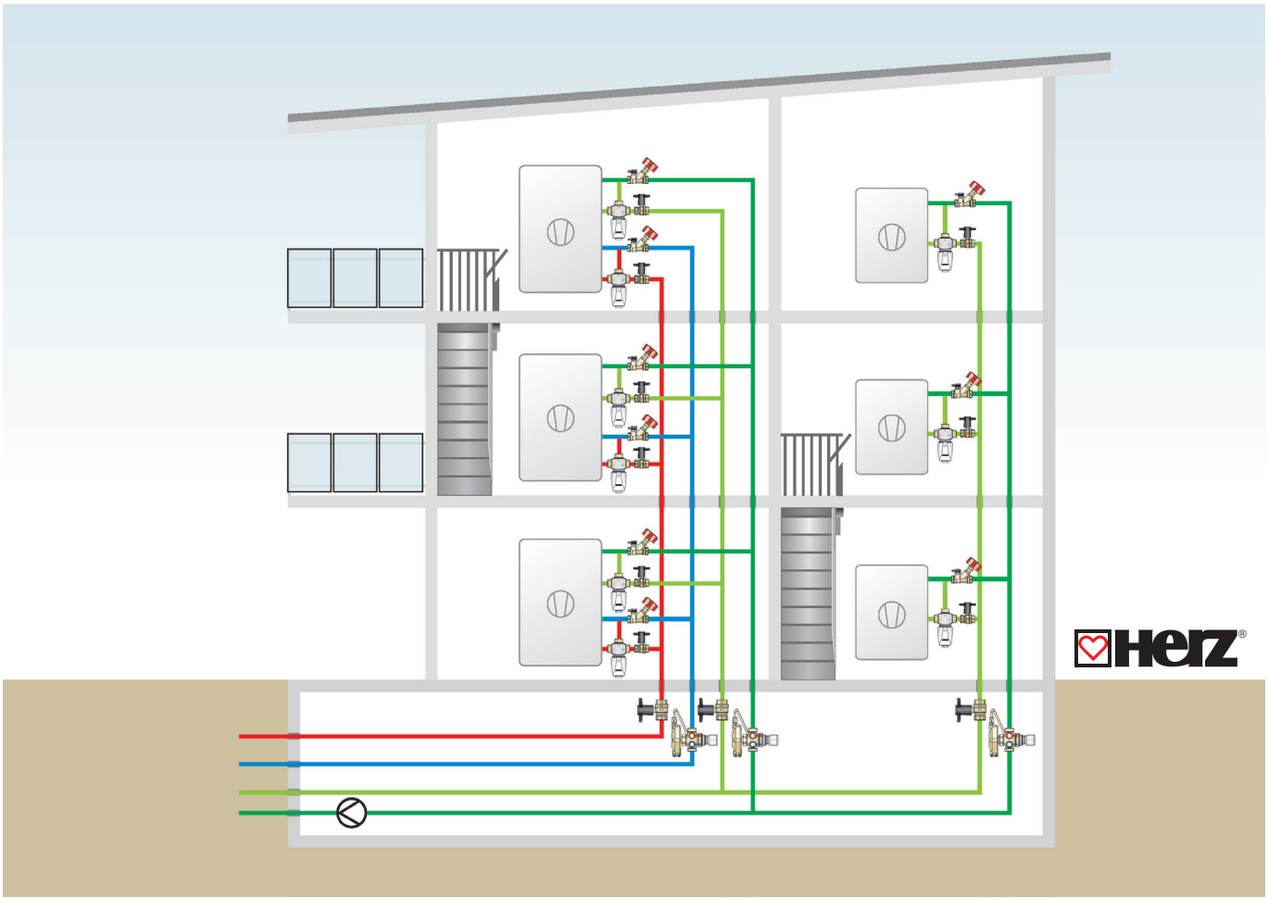
*** The adapter specified in the cell is required for installation.**

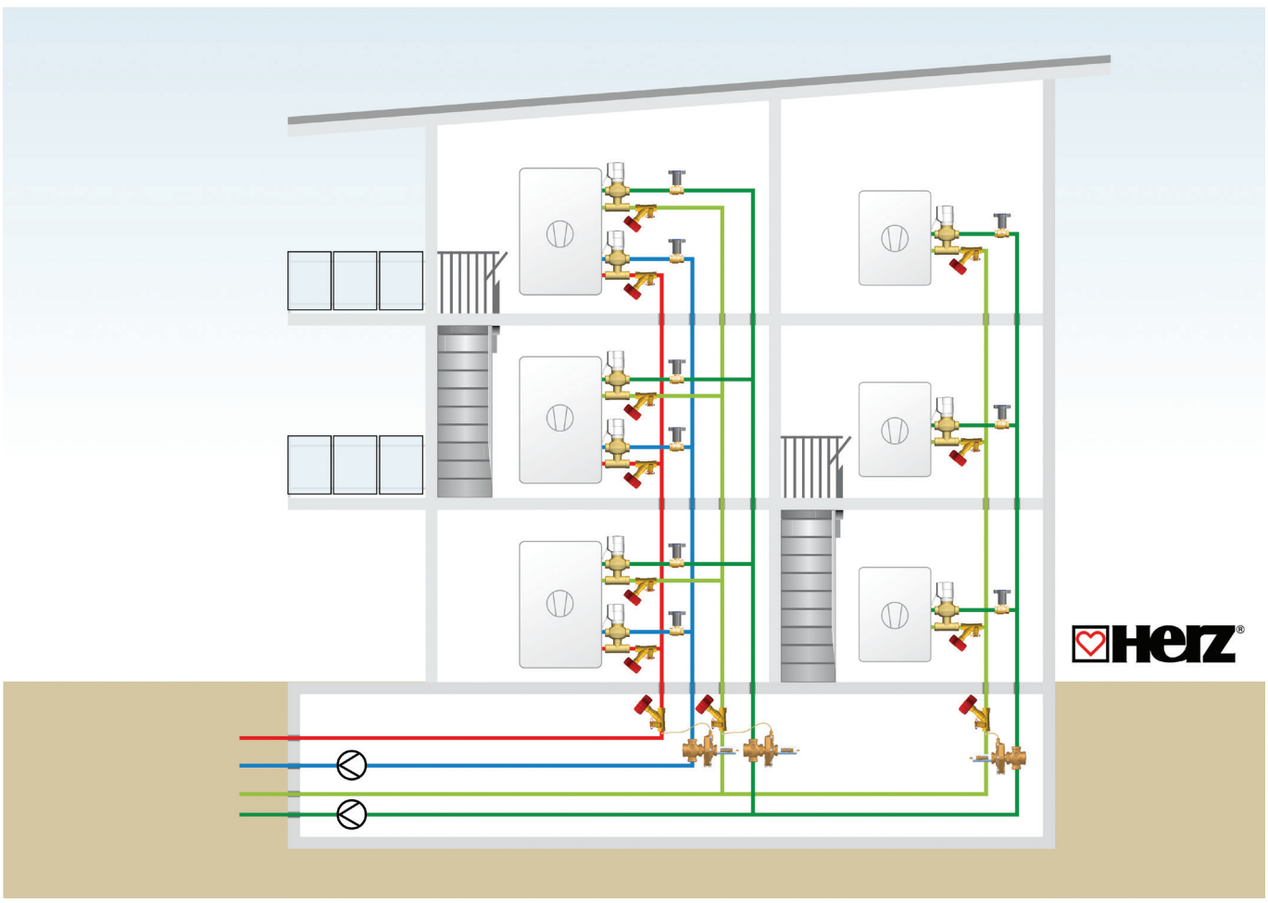
Selection Matrix for Actuators

			1 **7712** 30 230 V 2, 3-point 1000 N, 20 mm	1 **7712** 25 230 V 2, 3-point for **2137**	1 **7712** 27 24 V continuous, 2-3-point for **2137**	1 **7712** 33 230 V 2, 3-point for **2117**	1 **7712** 35 24 V continuous, 2-3 point for **2117**
Combi valve	DN	max. m³/h					
F **4006** 71	15	2,5					
F **4006** 90							
F **4006** 72	15	4					
F **4006** 91							
F **4006** 73	25	6,3					
F **4006** 92							
F **4006** 93	25	8					
F **4006** 53							
F **4006** 74	32	12					
F **4006** 94							
F **4006** 75	40	20					
F **4006** 95							
F **4006** 80	50	32					
F **4006** 96							
F **4006** 62							
F **4006** 81	65	50					
F **4006** 97							
F **4006** 63							
F **4006** 82	80	80					
F **4006** 98							
F **4006** 64			1 **7712** 17 *				
F **4006** 83	100	125					
F **4006** 99							
F **4006** 65			1 **7712** 17 *				
F **4006** 84	125	180					
F **4006** 10							
F **4006** 66							
F **4006** 56	125						
F **4006** 67	150						
F **4006** 57	150						
F **4006** 48	200UHF						
F **4006** 58	200HF						
F **4006** 68	200SF						
F **4006** 69	250						
F **4006** 39	15	1,6					
F **4006** 40	15	2,5					
F **4006** 41	15	4					
F **4006** 42	20	6,3					
2-port valves	DN	kvs					
F **4035** 01	15	1					
F **4035** 40							
F **4035** 11	15	1.6					
F **4035** 51							
F **4035** 21	15	2.5					
F **4035** 61							
F **4035** 31	15	4					
F **4035** 71							
F **4035** 03	25	6.3					
F **4035** 43							
F **4035** 13	25	10					
F **4035** 53							
F **4035** 04	32	16	1 **7712** 17 *				
F **4035** 44			1 **7712** 17 *				
F **4035** 05	40	25	1 **7712** 17 *				
F **4035** 45			1 **7712** 17 *				
F **4035** 16	50	40	1 **7712** 17 *				
F **4035** 56			1 **7712** 17 *				
F **4035** 07	65	63	1 **7712** 17 *				
F **4035** 47							
F **4035** 08	80	100	1 **7712** 17 *				
F **4035** 48							
F **4035** 09	100	160					
F **4035** 49							
F **4035** 10	125	250					
F **4035** 50							
F **4035** 41	150	330					
F **4035** 52							
3-port valves	DN	kvs					
F **4037** 01	15	1					
F **4037** 11	15	1.6					
F **4037** 21	15	2.5					
F **4037** 31	15	4					
F **4037** 03	25	6.3					
F **4037** 13	25	10					
F **4037** 04	32	16	1 **7712** 17 *				
F **4037** 05	40	25	1 **7712** 17 *				
F **4037** 16	50	40	1 **7712** 17 *				
F **4037** 07	65	63	1 **7712** 17 *				
F **4037** 08	80	100	1 **7712** 17 *				
F **4037** 09	100	160					
F **4037** 10	125	250					
F **4037** 41	150	330					
Mixers	DN						
1 **2137** 01	15			Direct installation	Direct installation		
1 **2137** 02	20			Direct installation	Direct installation		
1 **2137** 03	25			Direct installation	Direct installation		
1 **2137** 04	32			Direct installation	Direct installation		
1 **2137** 05	40			Direct installation	Direct installation		
1 **2137** 06	50			Direct installation	Direct installation		
Ball valves	DN						
1 **2117** 11	15					Direct installation	Direct installation
1 **2117** 12	20					Direct installation	Direct installation
1 **2117** 13	25					Direct installation	Direct installation
1 **2117** 14	32					Direct installation	Direct installation
1 **2117** 15	40					Direct installation	Direct installation
1 **2117** 16	50					Direct installation	Direct installation









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