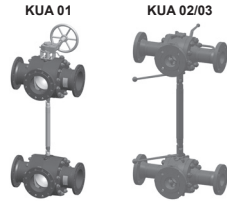


Ball change-over valve two-part, KUA Up to 16 bar



1. TECHNICAL SPECIFICATIONS

1.1 FILTER HOUSING

Design

The new two-part ball change-over valve was originally developed for use in RFLD and AFLD filters.

Independently of filters, the valve can also be used separately as a connector piece for double plate heat exchangers as well as for double tube bundle coolers.

Standard design SG iron:

- DIN or ASME flange (PN 16 or ASME B16.5 – class 150)
- Integrated pressure equalisation line with ball valve (DN15)
- Internal parts not made from stainless steel
- Supplied with cooler connection flange

Standard design steel/stainless steel:

- DIN or ASME flange (PN 16 or ASME B16.5 – class 150)
- External pressure equalisation line (compression fitting, DN15)
- Internal parts not made from stainless steel
- Supplied with cooler connection flange

In general, all ball change-over valves are supplied with test certificates (acceptance test certificate 3.1 to DIN EN 10204: Manufacturer's Test Certificate M, DIN 55350 Part 18 on final inspection and pressure testing).

1.2 FILTER SPECIFICATIONS

Nominal pressure	16 bar (others on request)
Temperature range	-10 °C to +100 °C
Material	01 = SG iron (EN GJS-400-15) 02 = steel (SA-216-WCB/1.0619) 03 = stainless steel (SA-351 CF8M/1.4408)

1.3 SEALS

NBR (=Perbunan)

1.4 SPECIAL MODELS AND ACCESSORIES

- Seals in FPM
- Internal parts made from stainless steel (only for KUA 02 and 03)
- External pressure equalisation line in other sizes and/or with flared fitting (only for KUA 02 and 03)
- Additional flange connections

1.5 SPARE PARTS

on request

1.6 CERTIFICATES AND APPROVALS

on request

1.7 COMPATIBILITY WITH HYDRAULIC FLUIDS ISO 2943

- Lubrication oils DIN 51517, API, ACEA, DIN 51515, ISO 6743
- Compressor oils DIN 51506
- Hydraulic oils H to HLPD DIN 51524
- Biodegradable operating fluids VDMA 24568 HETG, HEES, HEPG
- Fire-resistant fluids HFA, HFB, HFC and HFD
- Operating fluids with high water content (>50% water content) on request

1.8 MAINTENANCE INSTRUCTIONS

- The housing must be earthed via the pipe.
- The filter must be fitted absolutely vertically, or after consultation with the manufacturer, only within the tolerances specified

2. MODEL CODE (also order example)

KUA 01 C E W .X /-Z-Axxxx

2.1 KUA 01 (SG IRON)

Filter type

KUA Ball change-over valve

Material

01 SG iron

Operating pressure

C 16 bar

Change-over valve

E Two-part change-over valve

Type and size of port (ASME)

Type	Connection	Material
8	8"	01

Type and size of port (DIN)

Type	Connection	Material
W	DIN DN 200	01

Other connections on request!

Modification number

X the latest version is always supplied

Supplementary details – must be specified

Z Manufacturer's Test Certificate M, DIN 55350 Part 18 on final inspection and pressure testing
Acceptance test certificate 3.1 to EN 10204 (material certificate)

150 Indicate pressure load (class 150 – only for ASME flange!)

Axxxx Distance from ball centre to ball centre
(e.g. A710 = clearance 710 mm)

Other supplementary details

V Seals in FPM

KUA 02 C E 5 .X /-Z-150-Axxxx-8SB

2.2 KUA 02 (STEEL) AND 03 (STAINLESS STEEL)

Filter type

KUA Ball change-over valve

Material

02 steel

03 stainless steel

Operating pressure

C 16 bar

Change-over valve

E Two-part change-over valve

Type and size of port (ASME)

Type	Connection	Material
4	3"	02, 03
5	4"	02, 03
7	6"	02

Type and size of port (DIN)

Type	Connection	Material
Q	DIN DN 80	02, 03
R	DIN DN 100	02, 03
V	DIN DN 150	02

Other connections on request!

Modification number

X the latest version is always supplied

Supplementary details – must be specified

Z Manufacturer's Test Certificate M, DIN 55350 Part 18 on final inspection and pressure testing
Acceptance test certificate 3.1 to EN 10204 (material certificate)

150 Indicate pressure load (class 150 – only for ASME flange!)

Axxxx Distance from ball centre to ball centre
(e.g. A500 = clearance 500 mm)

Other supplementary details

V Seals in FPM

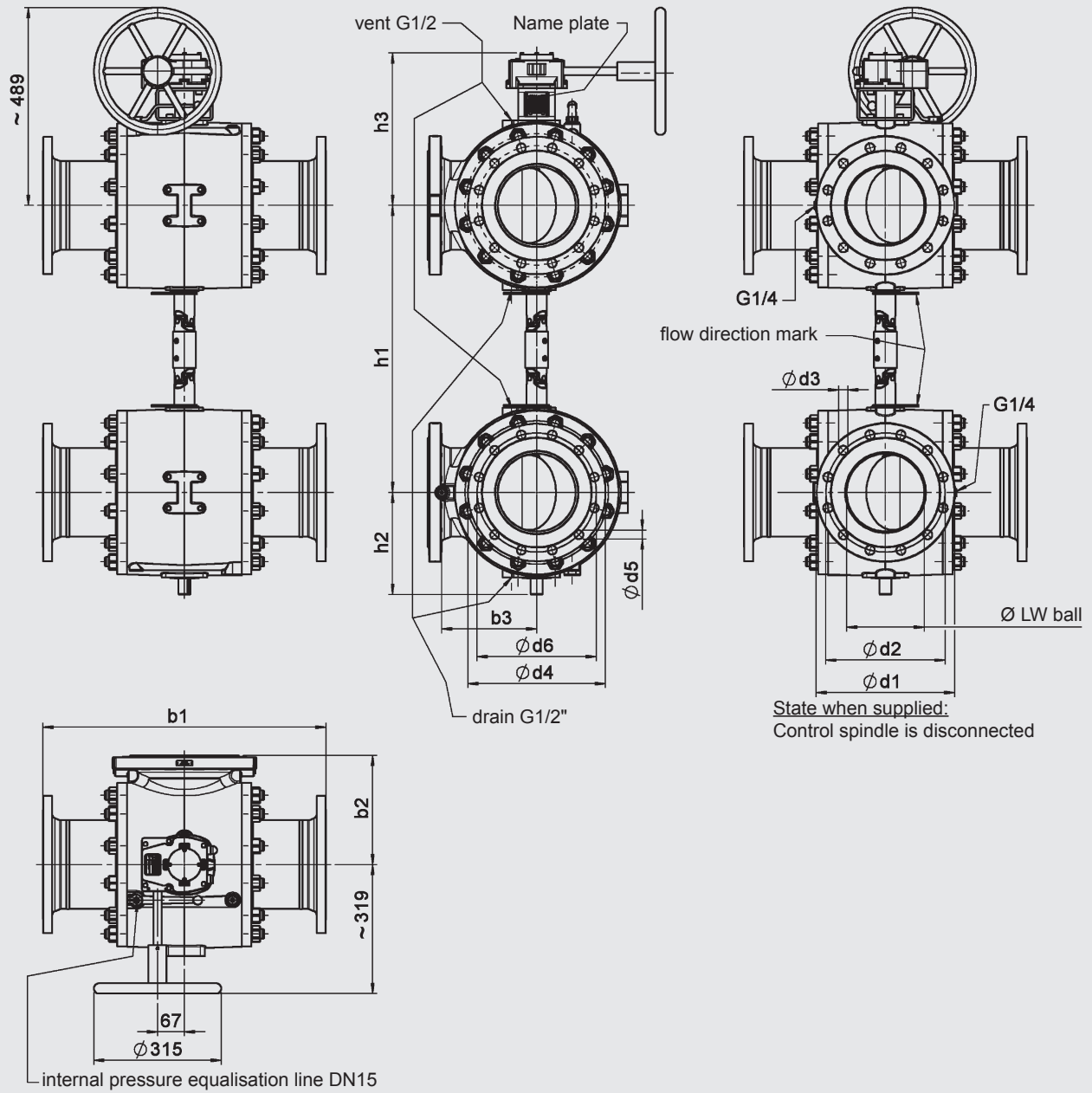
xSB Pressure equalisation line (e.g. 8SB = DN8, compression fitting)

xBB Pressure equalisation line (e.g. 8BB = DN8, flared fitting)

ISS Internal parts made from stainless steel (ball and spindle)

3. DIMENSIONS

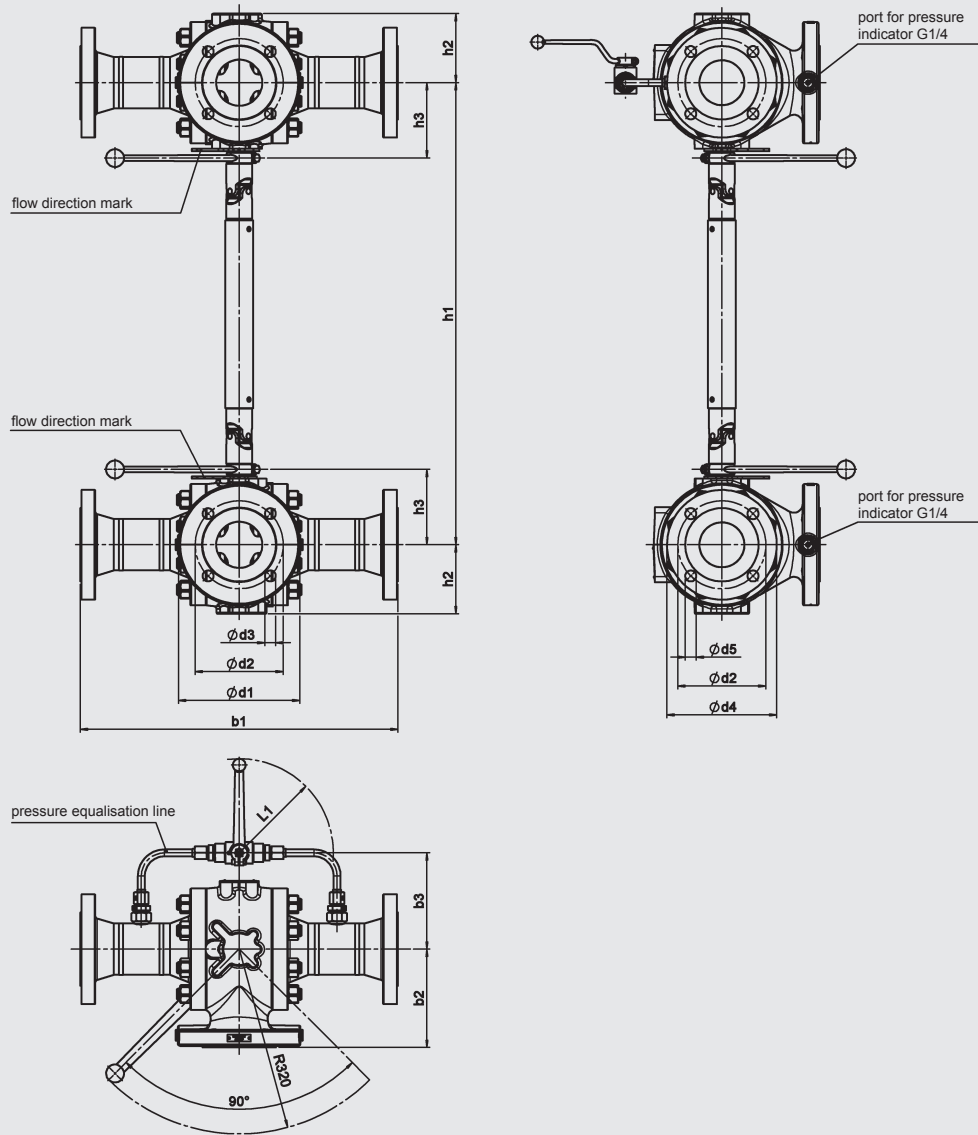
3.1 KUA 01 (SG IRON)



KUA	Connection to ASME B16.5 – class 150	b1	b2	b3	d1	d2	d3	d4	d5	d6	h1	h2	h3	LW ball
01	8"	782	270	235	343	299	8x23	345	8x22	299	Axxx min. 710	253	375	192

KUA	Connection to DIN EN ISO 1092 – PN16	b1	b2	b3	d1	d2	d3	d4	d5	d6	h1	h2	h3	LW ball
01	DIN DN 200	700	270	235	343	295	12x23	340	12x22	295	Axxx min. 710	253	375	192

3.2 KUA 02 (STEEL) / 03 (STAINLESS STEEL)



KUA	Connection to ASME B16.5 – class 150	b1	b2	b3	d1	d2	d3	d4	d5	h1	h2	h3	L1	LW ball
02/03	3"	554	170	144	210	152.4	4x19	190	4x19.1	Axxx min. 474	120	132	111	80
02/03	4"	600	210	167	255	190.5	8x19	230	4x19.1	Axxx min. 528	147	159	111	100
02	6"	560	250	182	280	241.3	8x22.2	280	8x22.2	Axxx min. 638	179	195	111	130

KUA	Connection to DIN EN ISO 1092 – PN16	b1	b2	b3	d1	d2	d3	d4	d5	h1	h2	h3	L1	LW ball
02/03	DIN DN 80	515	170	144	210	160	8x18	200	8x18	Axxx min. 474	120	132	111	80
02/03	DIN DN 100	550	210	167	235	180	8x19	220	8x18	Axxx min. 528	147	159	111	100
02	DIN DN 150	470	250	182	285	240	8x22	285	8x22	Axxx min. 638	179	195	111	130

NOTE

The information in this brochure relates to the operating conditions and applications described.
 For applications or operating conditions not described, please contact the relevant technical department.
 All technical details are subject to change without notice.

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