



The combi-cross offers optimal flexibility in both installation and potential retrofit of the valves. It has a full bore DN 400 centre part and can be supplied with valve sizes from DN 150 to 400 or a blind cap on any of the four outlets. The valves are mounted on the centre part by means of a two-part bracket, and can easily be removed and replaced by valves in other dimensions, as the design enables a vertical replacement of the valves without the use of special tools. The gate valves are in the renowned AVK design.

**Product Description:**

Combi-cross DN 400 with flanged valves DN 150-400 or blind cap for water and neutral liquids to max. 70° C

**Standards:**

- Designed according to EN 1074 part 1 & 2, Designed according to EN 1171
- Standard flange drilling to EN1092-2 (ISO 7005-2), PN 10/16

**Test/Approvals:**

- Complete unit shell tested at 1.1 x PN (valve design pressure in bar)
- Seat: 1.1 x PN (in bar), Body: 1.5 x PN (in bar). Operation torque test.
- Valves are hydraulic tested according to EN 1074-1 and 2 / EN 12266.

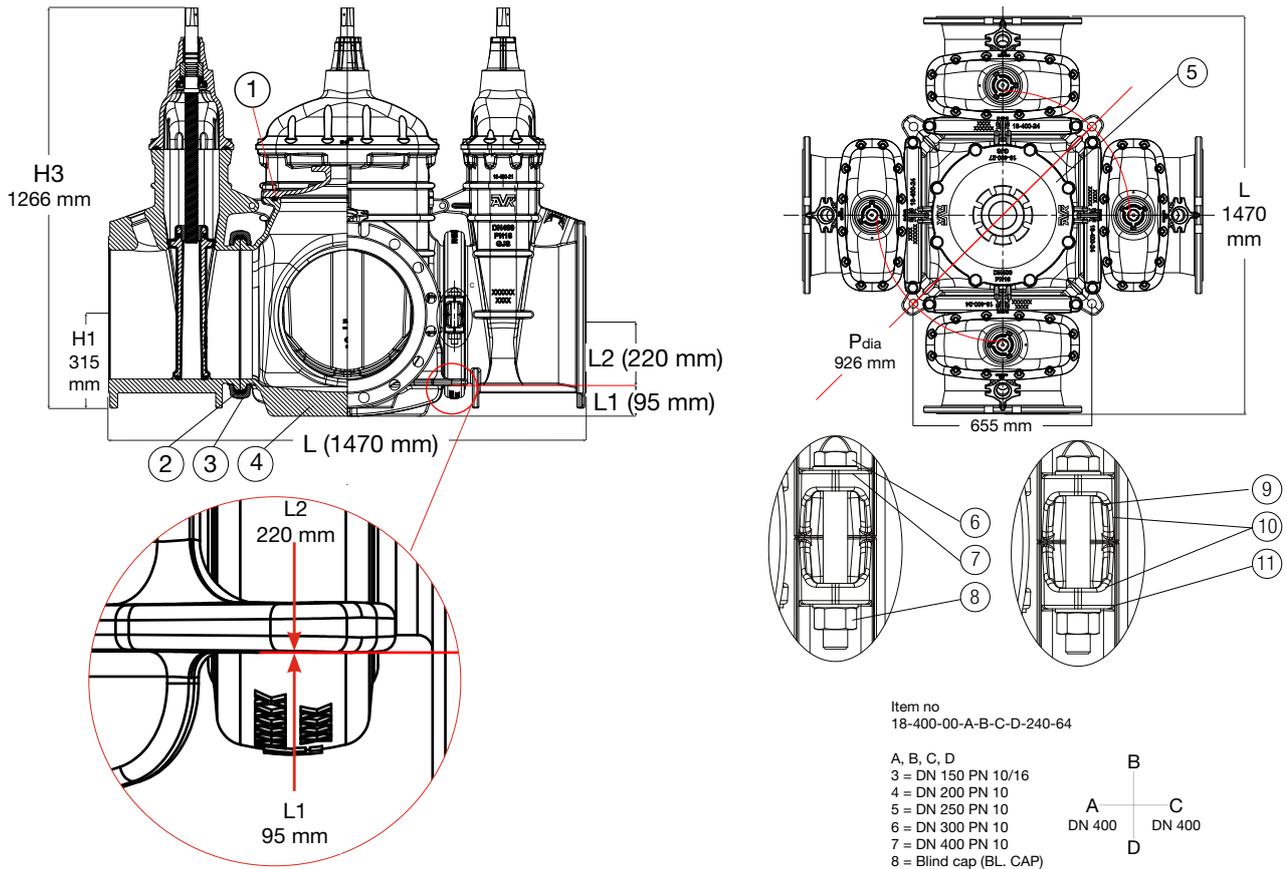
**Features:**

- Flexible solution with easily replaceable valves due to the unique bracket connection
- Centre outlet flange DN 100 for mounting hydrant
- The centre outlet allows for easy insertion of a full bore cleaning device
- The valves are prepared for/delivered with service outlets making it possible to take out water samples or to supply auxiliary water. The service outlets are mounted with bolts to avoid unprotected threads.
- Solid design with strong fixation lugs permanently bolted to the concrete base
- The face to face dimension is kept to a minimum for convenient installation in chambers
- Fixed, integral wedge nut prevents vibration and ensures durability
- Fully vulcanized wedge with guides, integrated wedge shoes and a large stem drain hole
- Stainless steel stem with wedge stop and rolled threads for high strength
- Full circle thrust collar provides fixation of the stem and low free running torques
- Triple safety stem sealing with an NBR wiper ring, a polyamide bearing with four NBR O-rings and an EPDM rubber manchette
- Round EPDM bonnet gasket fixed in a recess
- Countersunk and sealed stainless steel bonnet bolts encircled by the bonnet gasket
- Full bore
- All flanges are free flanges without need for stud bolts
- Low closing and operating torque
- Epoxy coating according to DIN 30677-2, approved by GSK

**Accessories:**

Stem extension piece, blind cap for centre and valve outlet, stem cap, handwheel, extension spindle, flange adaptor and combi-flange





**Component List:**

1. O-ring for centre outlet flange	EPDM 70	2. Gasket	EPDM 70
3. Assembly bracket	Ductile iron EN-GJS-500-7	4. Combi-cross	Ductile iron EN-GJS-500-7
5. Centre outlet flange	Ductile iron EN-GJS-500-7	6. Hexagon bolt for assembly bracket	Stainless steel A2
7. Washer for assembly bracket	Stainless steel A4	8. Hexagon nut for assembly bracket	Stainless steel A4, Delta Seal G2 coated
9. Hexagon bolt for centre outlet flange	Stainless steel A2	10. Washer for centre outlet flange	Stainless steel A4
11. Hexagon nut for centre outlet flange	Stainless steel A4, Delta Seal G2 coated		

Components may be substituted with equivalent or higher class materials without prior notification.

**Reference Nos. and Dimensions:**

AVK ref. nos	Valve A mm	Valve B mm	Valve C mm	Valve D mm	Flange drilling	Theoretical weight kg
18-400-00-7-3-7-3-240-64	400	150	400	150	PN10	802
18-400-00-7-3-7-8-240-64	400	150	400	BL. CAP	PN10	773
18-400-00-7-4-7-3-240-64	400	200	400	150	PN10	817
18-400-00-7-4-7-4-240-64	400	200	400	200	PN10	832
18-400-00-7-4-7-8-240-64	400	200	400	BL. CAP	PN10	788
18-400-00-7-5-7-3-240-64	400	250	400	150	PN10	844
18-400-00-7-5-7-4-240-64	400	250	400	200	PN10	859
18-400-00-7-5-7-5-240-64	400	250	400	250	PN10	886
18-400-00-7-5-7-8-240-64	400	250	400	BL. CAP	PN10	815
18-400-00-7-6-7-3-240-64	400	300	400	150	PN10	875
18-400-00-7-6-7-4-240-64	400	300	400	200	PN10	890
18-400-00-7-6-7-5-240-64	400	300	400	250	PN10	917
18-400-00-7-6-7-6-240-64	400	300	400	300	PN10	948
18-400-00-7-6-7-8-240-64	400	300	400	BL. CAP	PN10	846

The designs, materials and specifications shown are subject to change without notice. This is due to the continuous development of our product programme.

AVK ref. nos	Valve A mm	Valve B mm	Valve C mm	Valve D mm	Flange drilling	Theoretical weight kg
18-400-00-7-7-7-6-240-64	400	400	400	300	PN10	1035
18-400-00-7-7-7-7-240-64	400	400	400	400	PN10	1122
18-400-00-7-7-7-8-240-64	400	400	400	BL. CAP	PN10	933