

Block and Tank Valve Solutions for pharmaceutical applications



bürkert
FLUID CONTROL SYSTEMS

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- More than 3,300 satisfied OEMs, end customers and plant manufacturers in the pharmaceutical & biotech sector
- For more than 30 years we successfully meet all hygienic requirements



Robolux multiway, multiport diaphragm valve solution for AstraZeneca



Block solutions integrated in continuous chromatography skid by YMC

General Block Valve information

The markets and applications for Block and Tank Valve Solutions are very diverse.

Main industries:

- Pharmaceutical Production
- Biotechnology
- Chemical Processing

Main functions:

- Collecting
- Distribution
- Diverting
- Sampling
- Filling
- Mixing and blending
- Discharging
- Bypassing or isolation
- Automatic switch over

Main applications:

- Water systems
- Fermentation/Bioreactors
- Purification
- Filtration
- Chromatography
- CIP/SIP Systems



Block solution for manufacturing of infusion solutions for one of the leading manufacturers of infusions, clinical nutrition, drugs and medical products based in Hessen, Germany



Tank bottom valve system with integrated level sensor on a preparation tank for Unither Pharmaceuticals.

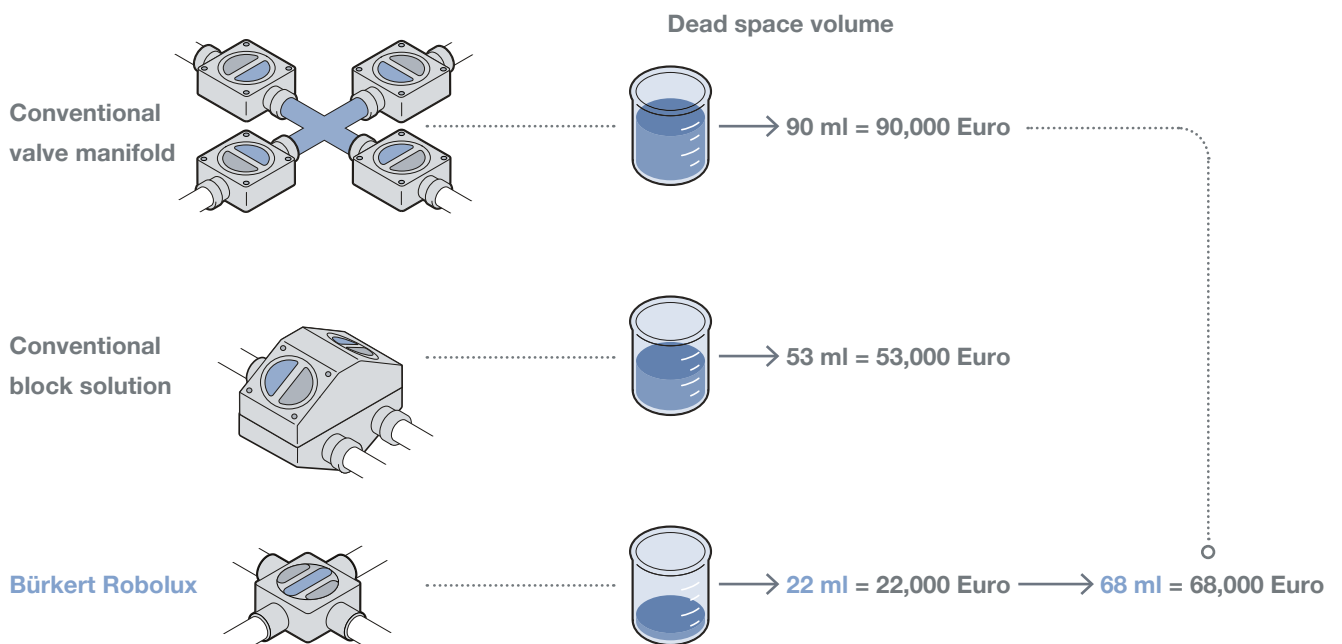
Bürkert Block Valve Solutions

Example calculation

Greater productivity thanks to smaller dead space: Three fluidic concepts result in three differently sized dead spaces. Your productivity improves if you can reduce dead spaces and thus minimise product mixing.

The following example calculation shows potential savings using a fictitious value of €100,000 per 100 ml of the final chromatography product as an example.

Drastically reduced hold up volumes



Main diaphragm valve configurations have largely been replaced by modern Block Valve Solutions.

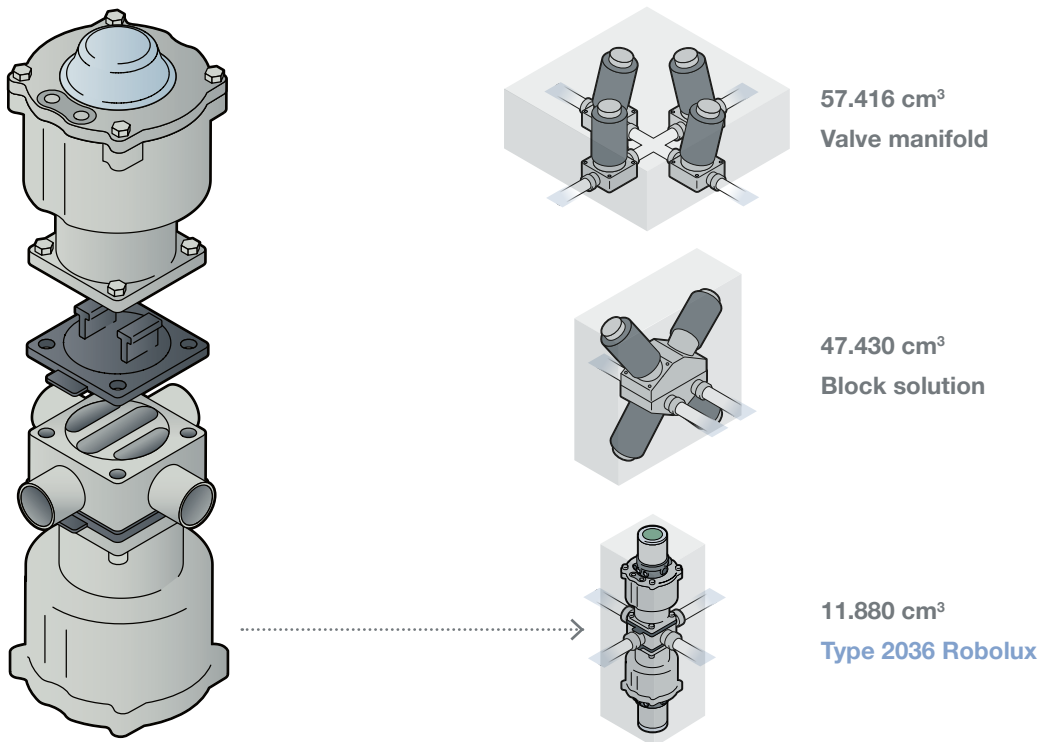
Main advantages of Block Valve Solutions are the reduced hold up volume, foot print and compactness. The hygienic design without internal welding enables complex designs which are not feasible with traditional welded configurations.

New thinking, new technology, new design.

The patented Robolux twin-weir diaphragm valve system even exceeds the single weir block solutions in its compactness. This further evolution of the design virtually eliminates dead legs in some configurations

completely and reduces the internal hold up volume to its absolute minimum. Due to the further reduced weight this design is quicker to heat up and cool down.

Drastically reduced space requirements



Two seats are oriented under one actuator which speeds up the maintenance as only one diaphragm for both seats has to be exchanged. Further time savers are the 4 spacer sleeves in the diaphragm for the fixing bolts as they allow a defined torque rate at the same time allowing enough flexibility of the sealing material. No retightening is required after initial assembling of the diaphragm.

The latest modern state of the art development is the merge of both systems. The patented Robolux twin-weir diaphragm valve system in combination with the traditional single-weir design creates a globally unique technology level.

This new technology drives the edge of feasibility even higher and not only meets the stringent requirements of a highly demanding industry but even driving the limits further.



Bürkert block valve competence

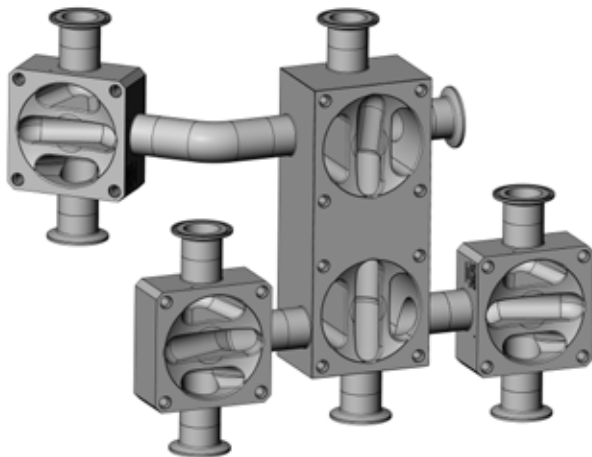
20 years of experience in manufacturing of individual block design and standardized block configurations.

For further info see www.burkert.com/diaphragmvalves

Individual block design

See page 61 onwards

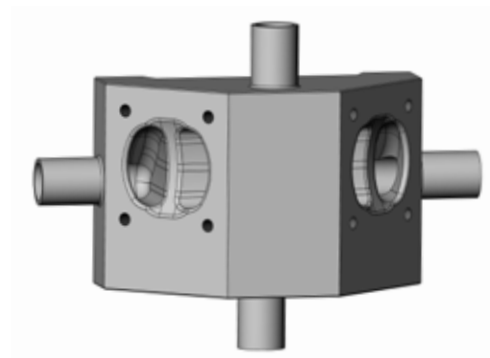
- flexible and compact design prepared for individual installation position
- optimized draining
- minimum dead leg
- minimum hold up volume
- reduced number of welding seams
- complete block welding solutions



Standardized block configurations

See page 17 onwards

- standardized functions and P&ID's
- minimum hold up volume
- designed for all available actuator types
- reduced number of welding seams
- minimum dead leg



Basic Information

Seat size

DN08 - DN100
Robulux RV50 – RV110



Actuators



Manual actuator



Robulux actuator



Inox actuator



ELEMENT actuator



Electric linear
actuator



CLASSIC pneumatic
actuator

Diaphragms

EPDM code AD

EPDM/PTFE two piece code EA

EPDM/PTFE two piece code EU

EPDM/PTFE-Gylon® bonded code ER



Polishing surface

Mechanical polishing, electrical polishing

Internal polishing, external polishing



Tube connections

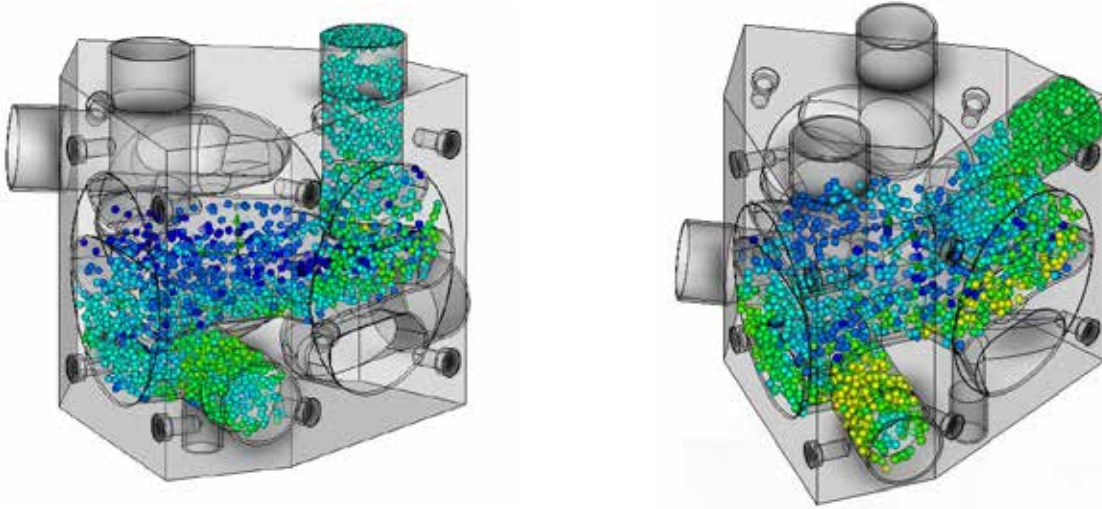
Welding connection

DN [mm]	NPS	DIN EN ISO 1127 ISO 4200 DIN 11866 Series B	SMS 3008 ISO 2037	DIN 11850 Series 0	DIN 11850 Series 1 DIN EN 10357 Series B	DIN 11850 Series 2 DIN EN 10357 Series A DIN 11866 Series A	DIN 11850 Series 3	BS 4825	ASME BPE DIN 11866 Series C	JIS G 3447	JIS G 3459	ASME B36.19M SCHEDULE 10S
4.0	-	-	-	SC40 6.0x1.0	-	-	-	-	-	-	-	-
6.0	1/8"	SA78 10.2x1.6	-	SC41 8.0x1.0	-	-	-	-	SA89 3.17x0.56	-	-	-
8.0	1/4"	SA40 13.5x1.6	-	SC42 10.0x1.0	-	-	-	SODB 6.35x1.2	SA90 6.35x0.89	SA70 13.8x1.65	-	-
10.0	3/8"	SA41 17.2x1.6	-	-	SF40 12.0x1.0	SD40 13.0x1.5	SE40 14.0x2.0	SODC 9.53x1.2	SA91 9.53x0.89	SA71 17.3x1.65	-	-
15.0	1/2"	SA42 21.3x1.6	-	SC43 18.0x1.5	SF41 18.0x1.0	SD42 19.0x1.5	SE42 20.0x2.0	SODD 12.7x1.2	SA92 12.7x1.65	SA72 21.7x2.11	-	SA30 21.3x2.11
20.0	3/4"	SA43 26.9x1.6	-	SC44 22.0x1.5	SF42 22.0x1.0	SD43 23.0x1.5	SE43 24.0x2.0	SODE 19.05x1.2	SA93 19.05x1.65	-	SA80 27.2x2.1	SA31 26.7x2.11
25.0	1"	SA44 33.7x2.0	SA60 25.0x1.2	SC45 28.0x1.5	SF43 28.0x1.0	SD44 29.0x1.5	SE44 30.0x2.0	SODF 25.4x1.65	SODF 25.4x1.65	SA73 25.4x1.2	SA81 34x2.0	SA32 33.4x2.77
32.0	1 1/4"	SA45 42.4x2.0	SA61 33.7x1.2	SC46 34.0x1.5	SF44 34.0x1.0	SD45 35.0x1.5	SE45 36.0x2.0	-	-	-	SA82 42.7x2.0	SA33 42.2x2.77
40.0	1 1/2"	SA46 48.3x2.0	SA62 38.0x1.2	SC47 40.0x1.5	SF45 40.0x1.0	SD46 41.0x1.5	SE46 42.0x2.0	SODH 38.1x1.65	SODH 38.1x1.65	SA74 38.1x1.2	SA83 48.6x2.0	SA34 48.3x2.77
50.0	2"	SA47 60.3x2.0	SA63 51.0x1.2	SC48 52.0x1.5	SF46 52.0x1.0	SD47 53.0x1.5	SE47 54.0x2.0	SODI 50.8x1.65	SODI 50.8x1.65	SA75 50.8x1.5	SA84 60.5x2.0	SA35 60.3x2.77
65.0	2 1/2"	SA48 76.1x2.0	SA64 63.5x1.6	-	-	SD48 70.0x2.0	-	SODJ 63.5x1.65	SODJ 63.5x1.65	SA77 63.5x2.0	-	SA36 73.0x3.05
80.0	3"	SA49 88.9x2.3	SA65 76.1x1.6	-	-	SD49 85.0x2.0	-	SODK 76.2x1.65	SODK 76.2x1.65	SA79 76.3x2.0	-	SA37 88.9x3.05
100.0	4"	SA39 114.3x2.3	SA66 101.6x2.0	-	-	SD50 104.0x2.0	-	SODL 101.6x2.11	SODL 101.6x2.11	-	-	SA38 114.3x3.05

* further connection types on request

Clamp connection

DN [mm]	NPS	DIN 32676 Series A DIN-tube DIN 11850 Series-2	DIN 32676 Series B ISO-4200 tube	ASME BPE	BS 4825 Clamp BS 4825-3, tube BS 4825-1	ISO 2852	Clamp ASME BPE tube JIS G 3447
6.0	1/8"	TD39 - 8.0x1.0 Clamp: 25.0	–	–	–	–	–
8.0	1/4"	TD40 - 10.0x1.0 Clamp: 25.0	TC40 - 13.5x1.6 Clamp: 25.0	TG50 - 6.35x0.89 Clamp: 25.0	TH40 - 6.35x1.2 Clamp: 25.0	–	–
10.0	3/8"	TD41 - 13.0x1.5 Clamp: 34.0	TC53 - 17.2x1.6 Clamp: 25.0	TG01 - 9.53x0.89 Clamp: 25.0	TH41 - 9.53x1.2 Clamp: 25.0	–	–
15.0	1/2"	TD42 - 19.0x1.5 Clamp: 34.0	TC52 - 21.3x1.6 Clamp: 50.5	TG02 - 12.7x1.65 Clamp: 25.0	TH42 - 12.7x1.2 Clamp: 25.0	–	–
20.0	3/4"	TD43 - 23.0x1.5 Clamp: 34.0	TC43 - 26.9x1.6 Clamp: 50.5	TG03 - 19.05x1.65 Clamp: 25.0	TH43 - 19.05x1.2 Clamp: 25.0	–	–
25.0	1"	TD44 - 29.0x1.5 Clamp: 50.5	TC44 - 33.7x2.0 Clamp: 50.5	TG04 - 25.4x1.65 Clamp: 50.5	TG04 - 25.4x1.65 Clamp: 50.5	TM44 - 25.6x1.5 Clamp: 50.5	TG73 - 25.4x1.2 Clamp: 50.5
32.0	1 1/4"	TD45 - 35.0x1.5 Clamp: 50.5	–	–	–	–	TG74 - 31.8x1.2 Clamp: 50.5
40.0	1 1/2"	TD46 - 41.0x1.5 Clamp: 50.5	TC46 - 48.3x2.0 Clamp: 64.0	TG05 - 38.1x1.65 Clamp: 50.5	TG05 - 38.1x1.65 Clamp: 50.5	TM46 - 38.6x1.5 Clamp: 50.5	TG75 - 38.1x1.2 Clamp: 50.5
50.0	2"	TD47 - 53.0x1.5 Clamp: 64.0	TC47 - 60.3x2.0 Clamp: 77.5	TG06 - 50.8x1.65 Clamp: 64.0	TG06 - 50.8x1.65 Clamp: 64.0	TM47 - 51.6x1.5 Clamp: 64.0	TG76 - 50.8x1.5 Clamp: 64.0
65.0	2 1/2"	TD48 - 70.0x2.0 Clamp: 91.0	TC48 - 76.1x2.0 Clamp: 91.0	TG07 - 63.5x1.65 Clamp: 77.5	TG07 - 63.5x1.65 Clamp: 77.5	TM48 - 64.1x1.9 Clamp: 77.5	TG77 - 63.5x2.0 Clamp: 77.5
80.0	3"	TD49 - 85.0x2.0 Clamp: 106.0	TC49 - 88.9x2.3 Clamp: 106.0	TG08 - 76.1x1.65 Clamp: 91.0	TG08 - 76.1x1.65 Clamp: 91.0	TM49 - 76.7x1.9 Clamp: 91.0	TG78 - 76.3x2.0 Clamp: 91.0
100.0	4"	TD50 - 104.0x2.0 Clamp: 119.0	TC50 - 114.3x2.3 Clamp: 130.0	TG09 - 101.6x2.11 Clamp: 119.0	TG09 - 101.6x2.11 Clamp: 119.0	TM50 - 102.5x2.45 Clamp: 119.0	–



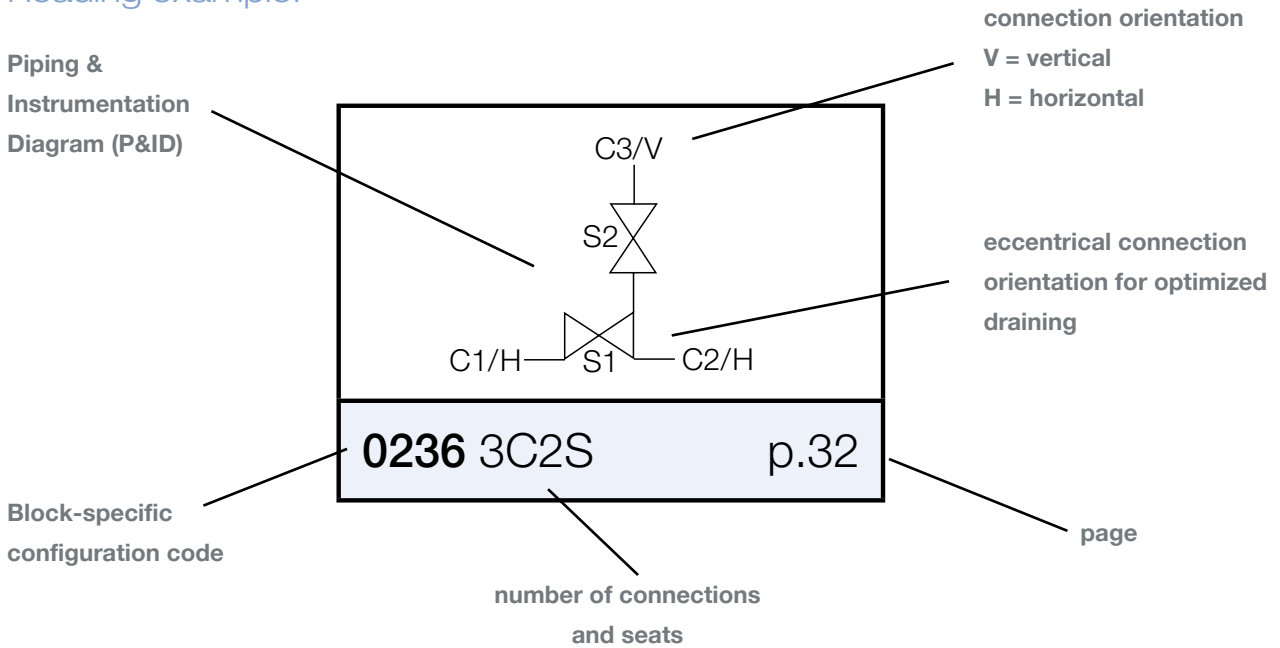
Complete internal flow: Fully flushed dead spaces avoid contamination



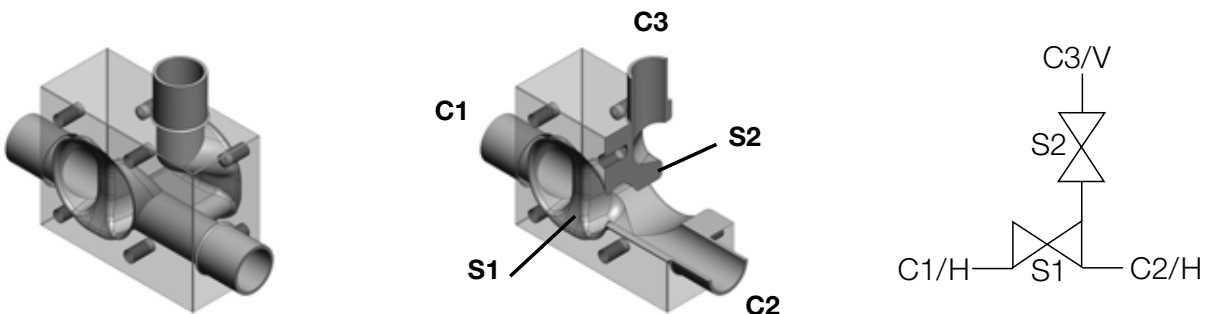
Selected standardized configurations

Bürkert standardized block valve and tank valve solutions are defined by specific design codes like SAP1, 0236, GMP3, ... For product enquiry form see data sheet Type 2034: www.burkert.com/en/type/2034

Reading example:

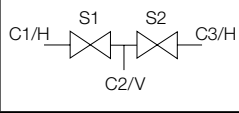
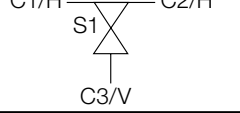
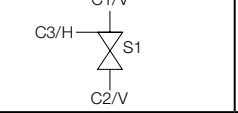
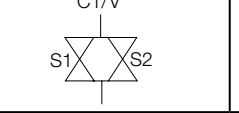
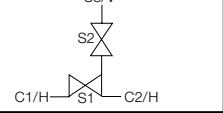
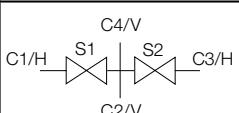
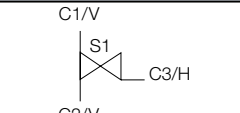
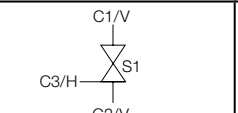
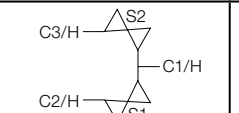
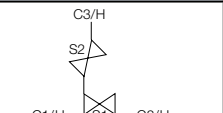
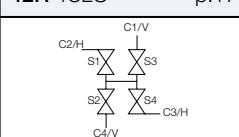
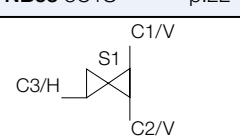
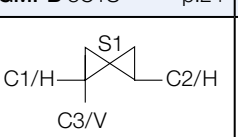
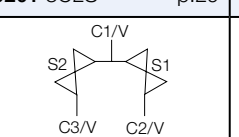
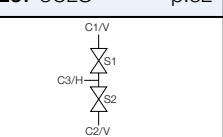
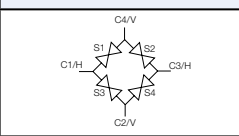
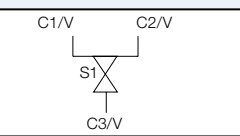
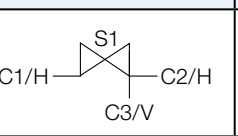
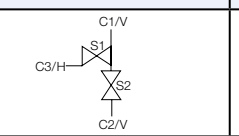
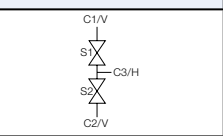
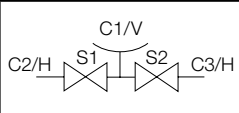
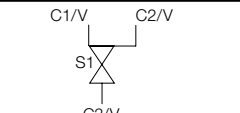
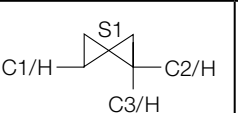
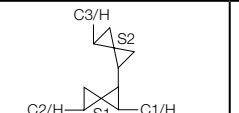
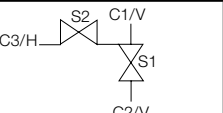
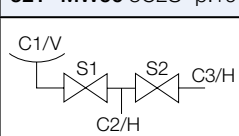
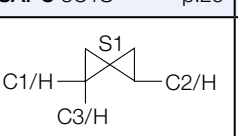
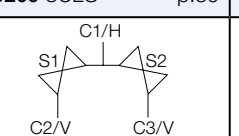
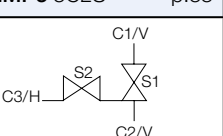
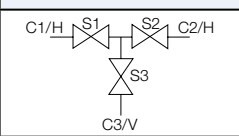
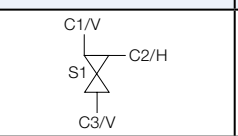
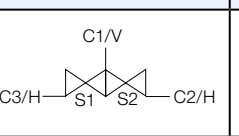
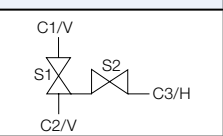
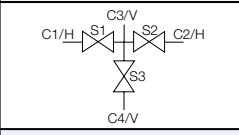
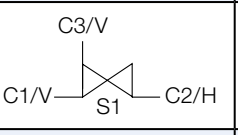
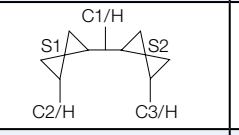
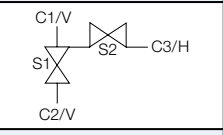
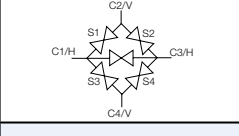
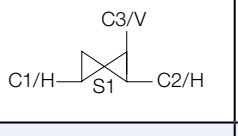
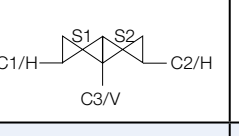
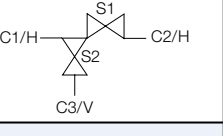

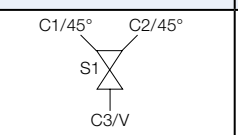
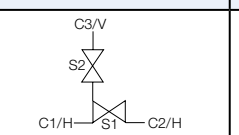
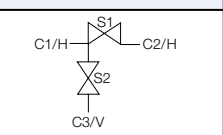


0236



3 connections, 2 seats: 1 vertical connection, 2 horizontal connections

The shown bodies are only exemplary representations. In case of dead leg optimized construction, the design could be different to the shown example.

Robolux	T-Valve / POU	1 Seat	2 Seats	2 Seats
				
32R 3C2S p.17	T-Valve 3C1S p.22	GMPA 3C1S p.24	0216 2C2S p.28	0236 3C2S p.32
				
42R 4C2S p.17	NB58 3C1S p.22	GMPB 3C1S p.24	0201 3C2S p.29	0237 3C2S p.32
				
CF 4C4S p.18	NH15 3C1S p.22	SAPA 3C1S p.24	0202 3C2S p.29	0256 3C2S p.32
				
DFP 4C4S p.18	POU 3C1S p.23	SAPB 3C1S p.25	0208 3C2S p.29	0257 3C2S p.33
				
32T *MW56 3C2S p.19	POU 4C4S p.23	SAPC 3C1S p.25	0209 3C2S p.30	GMP3 3C2S p.33
				
32T *MW90 3C2S p.19		SAPD 3C1S p.25	0226 3C2S p.30	GMP4 3C2S p.33
				
K301 3C3S p.20		0113 3C1S p.26	0227 3C2S p.30	GMP5 3C2S p.34
				
K302 4C3S p.20		0114 3C1S p.26	0232 3C2S p.31	GMP6 3C2S p.34
				
K501 4C5S p.21		0115 3C1S p.26	0233 3C2S p.31	SAP1 3C2S p.34
				
0116 3C1S p.27		0116 3C1S p.27	0234 3C2S p.31	SAP2 3C2S p.35

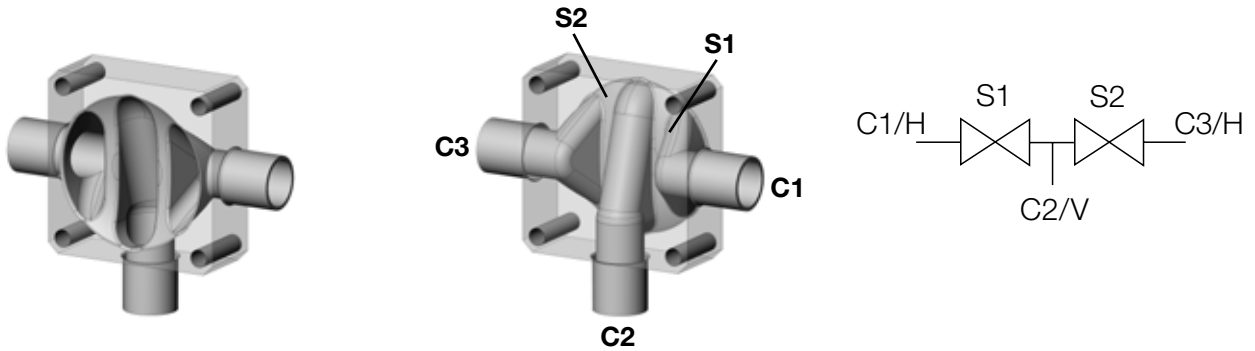
2 Seats	2 Seats	3 Seats	3 Seats	4 Seats
SAP3 3C2S p.35	0253 4C2S p.39	0302 4C3S p.42	0336 4C3S p.45	0413 4C4S p.49
SAP4 3C2S p.35	0254 4C2S p.39	0303 4C3S p.42	0337 4C3S p.46	0415 4C4S p.49
SAP7 3C2S p.36	3 Seats	0304 4C3S p.43	0338 4C3S p.46	0418 4C4S p.49
SAP8 3C2S p.36	0316 3C3S p.40	0317 4C3S p.43	0340 4C3S p.46	0423 4C4S p.50
0203 4C2S p.37	0325 3C3S p.40	0319 4C3S p.43	0341 4C3S p.47	0410 4C4S p.50
0204 4C2S p.37	0328 3C3S p.40	0321 4C3S p.44	0343 4C3S p.47	0409 4C4S p.50
0205 4C2S p.37	0333 3C3S p.41	0322 4C3S p.44	0344 4C3S p.47	0403 5C4S p.51
0235 4C2S p.38	0334 3C3S p.41	0326 4C3S p.44	0323 5C3S p.48	0416 5C4S p.51
0249 4C2S p.38	0339 3C3S p.41	0329 4C3S p.45	0327 5C3S p.48	0492 5C4S p.51
0250 4C2S p.38	0301 4C3S p.42	0335 4C3S p.45	0342 5C3S p.48	0417 6C4S p.52

4 Seats	6 Seats	Tank Valve	Tank Bottom with welded on body	Tank Valve with integrated seat
0424 6C4S p.52	0602 8C6S p.54	Tank Valve p.55	0231 3C2S p.56	0252 3C2S p.60
0425 6C4S p.52		Tank Val. NBxx left p.55	0243 3C2S p.56	0229 3C2S p.60
0476 6C4S p.53		Tank Val. NBxx right p.55	0247 3C2S p.56	0251 3C2S p.60
0477 7C4S p.53			0244 3C2S p.57	0206 3C2S sp.61
			0248 3C2S p.57	
5 Seats				
			0245 3C2S p.57	
0501 4C5S p.54				
			0241 3C2S p.58	
			0242 3C2S p.58	
			0239 3C2S p.58	
			0240 3C2S p.59	

Robolux Solution with 2 seats

3C2S (3 connections / 2 seats)

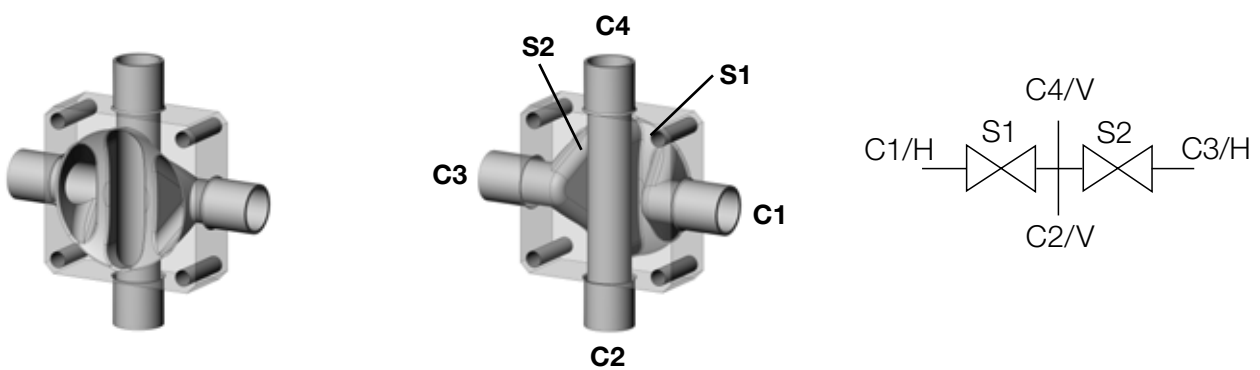
32R



3 connections, 2 seats: 1 vertical, 2 horizontal

4C2S (4 connections / 2 seats)

42R

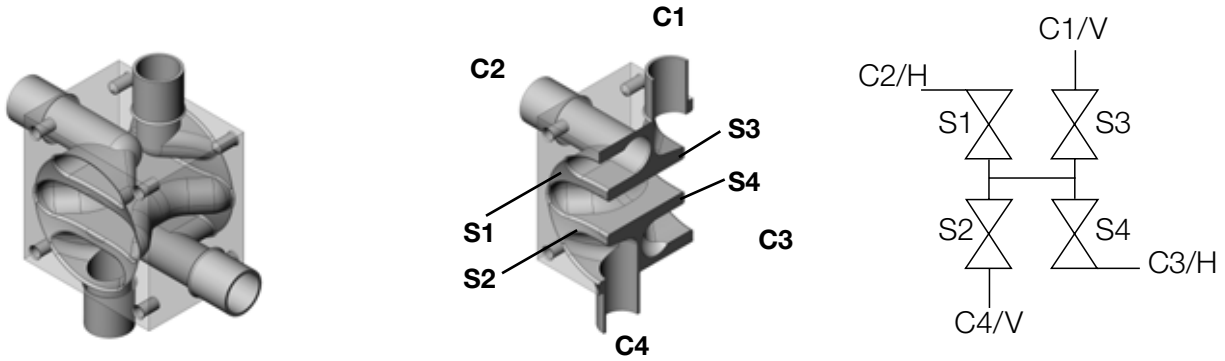


4 connections, 2 seats: 2 vertical, 2 horizontal

Robolux Solution with 4 seats

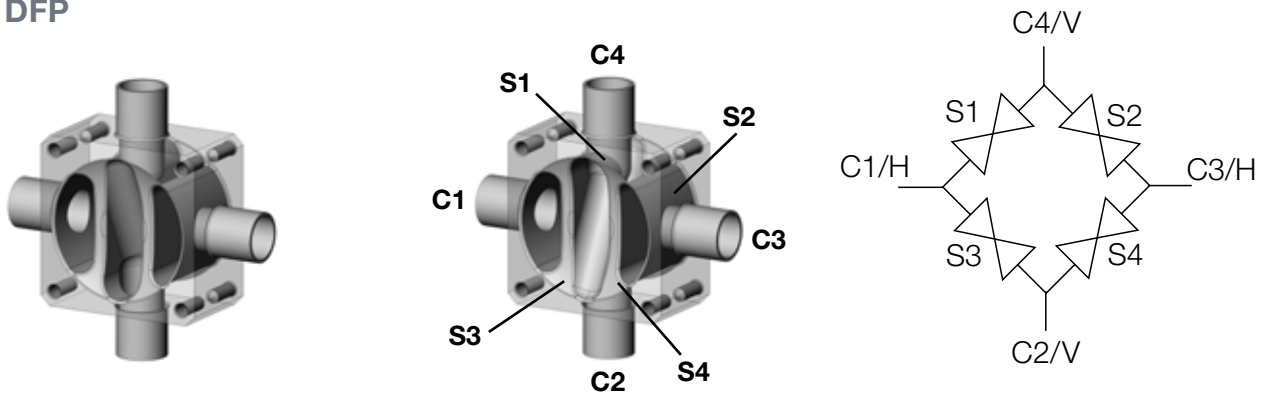
4C4S (4 connections / 4 seats)

CF



4 connections, 4 seats: 2 vertical, 2 horizontal

DFP

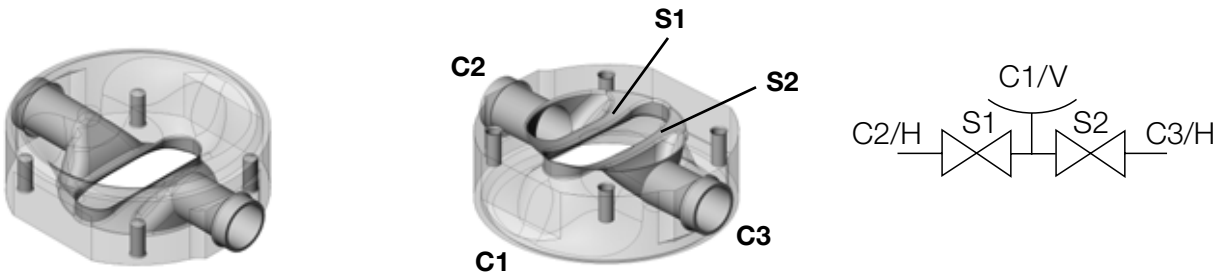


4 connections, 4 seats: 2 vertical, 2 horizontal

Robolux Solution for Tank Bottom

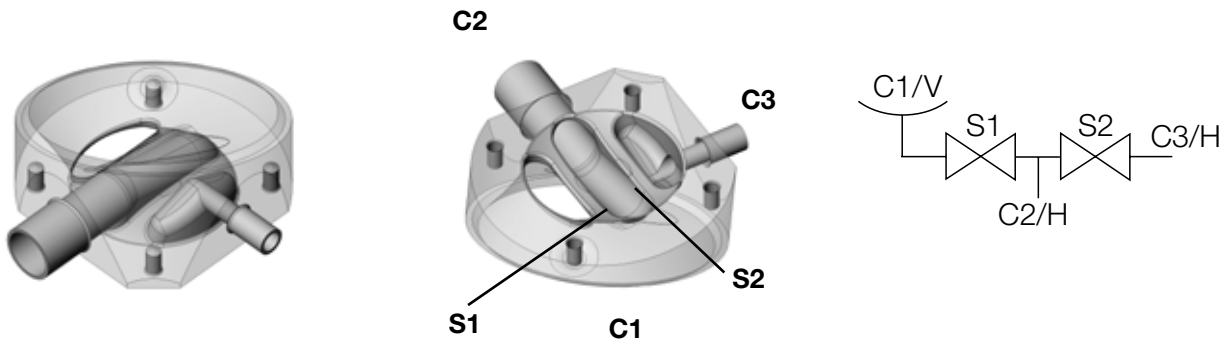
3C2S (3 connections / 2 seats)

32T *MW56



3 connections, 2 seats: 1 vertical, 2 horizontal

32T *MW90

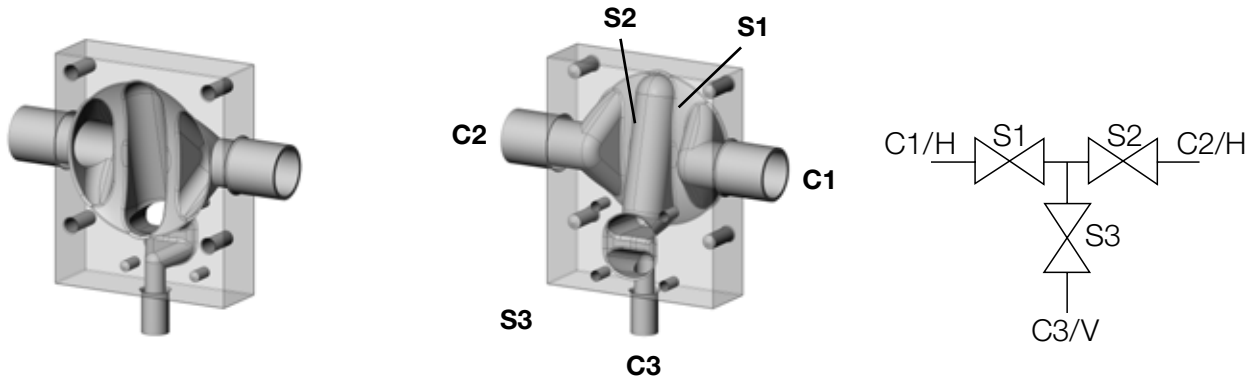


3 connections, 2 seats: 1 vertical, 2 horizontal

Robolux combined Solution with 3 seats

3C3S (3 connections / 3 seats)

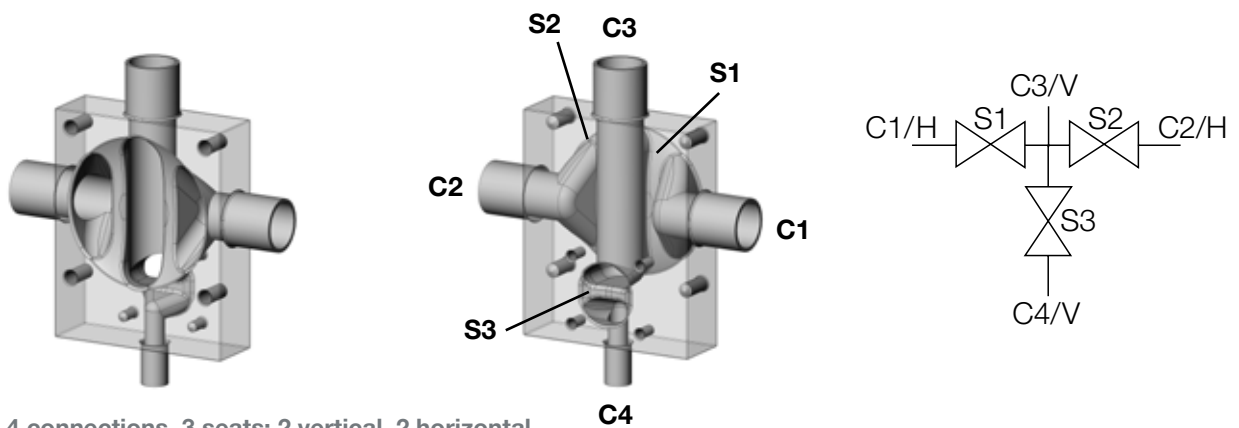
K301



3 connections, 3 seats: 1 vertical, 2 horizontal

4C3S (4 connections / 3 seats)

K302

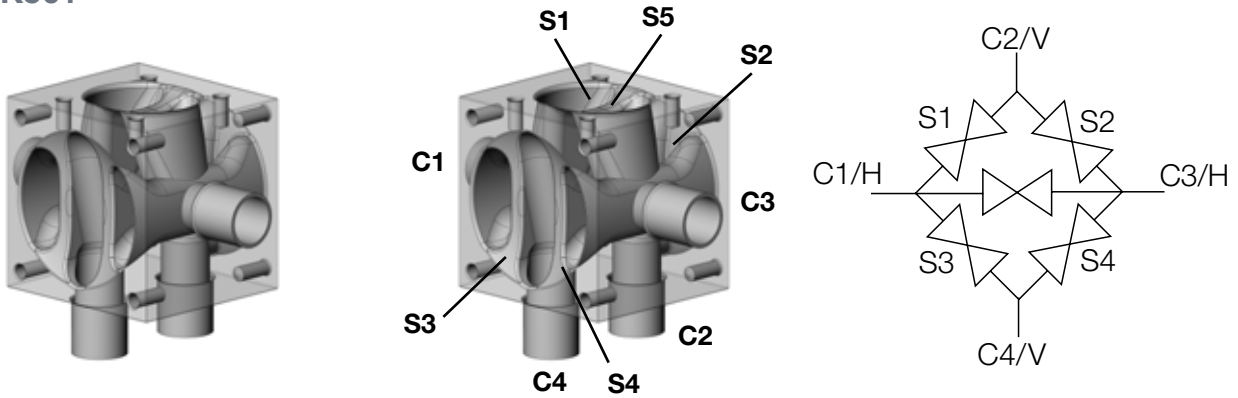


4 connections, 3 seats: 2 vertical, 2 horizontal

Robolux combined Solution with 5 seats

4C5S (4 connections / 5 seats)

K501

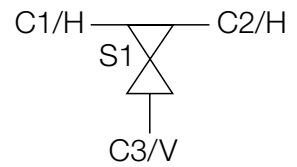
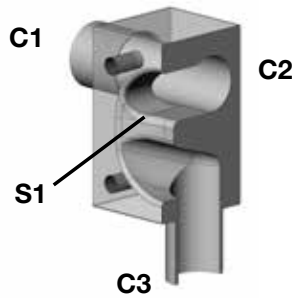
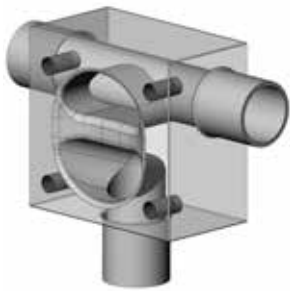


4 connections, 5 seats: 2 vertical, 2 horizontal

T-Valve / POU Solution

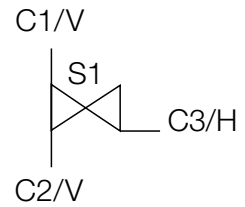
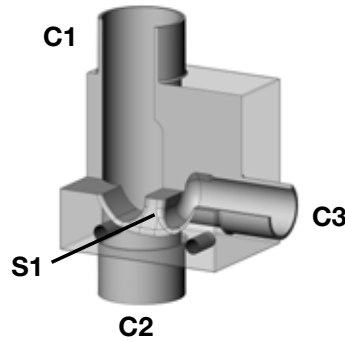
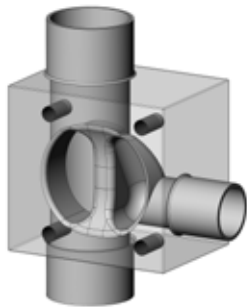
3C1S (3 connections / 1 seat)

T-Valve Standard



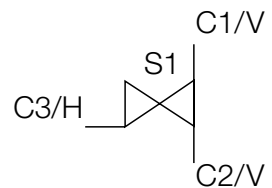
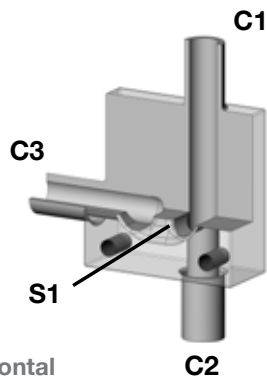
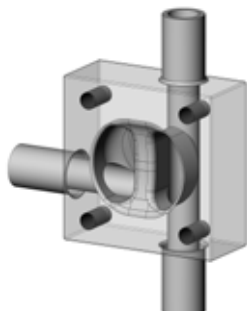
3 connections, 1 seat: 1 vertical, 2 horizontal

NB58



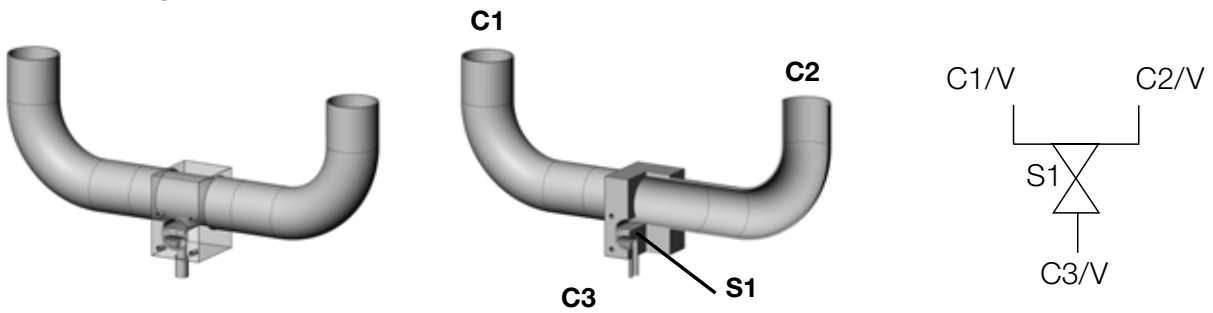
3 connections, 1 seat: 2 vertical, 1 horizontal

NH15



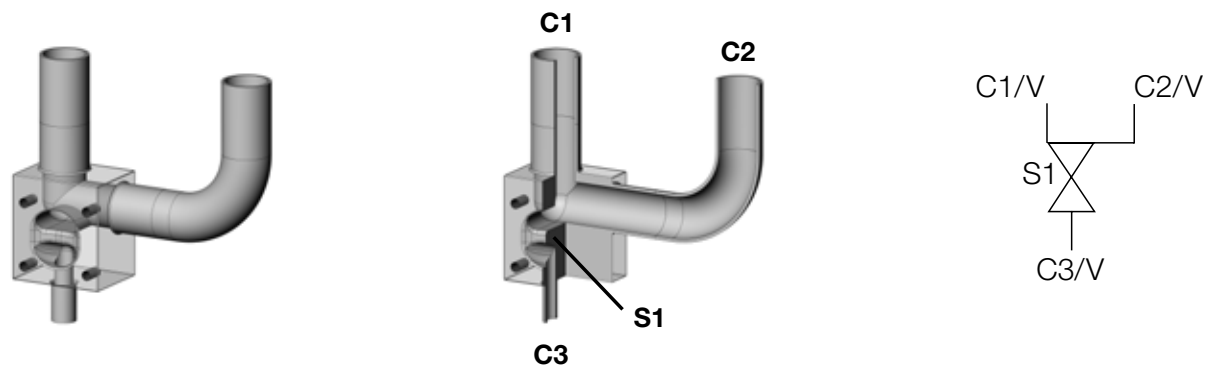
3 connections, 1 seat: 2 vertical, 1 horizontal

POU Design with U-Bend



3 connections, 1 seat: 3 vertical

POU optimized Design with U-Bend

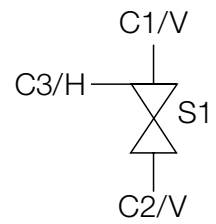
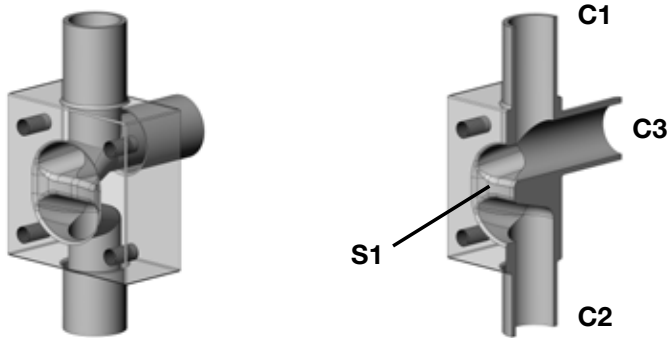


3 connections, 1 seat: 3 vertical

Block Solution with 1 seat

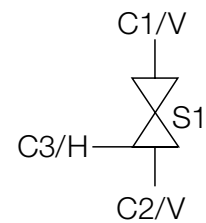
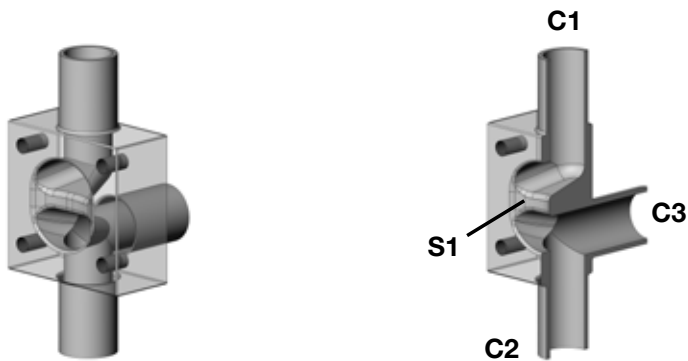
3C1S (3 connections / 1 seat)

GMPA



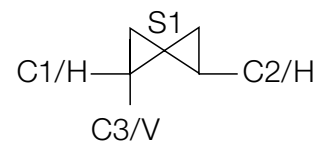
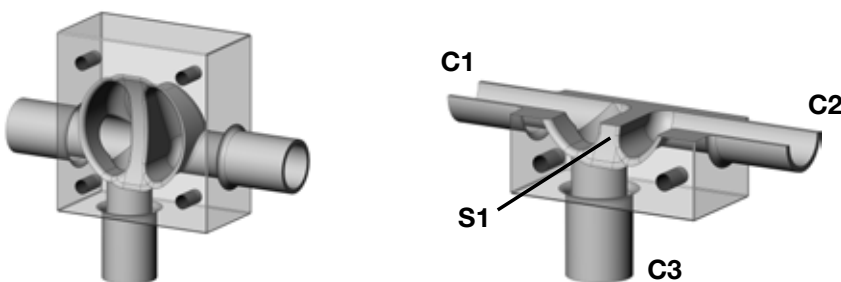
3 connections, 1 seat: 2 vertical, 1 horizontal

GMPB



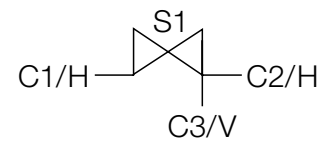
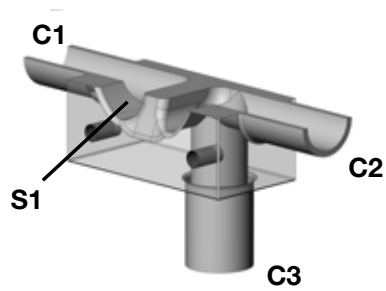
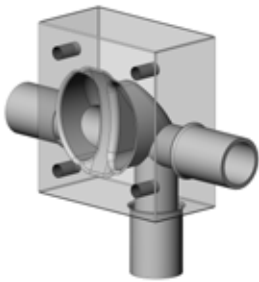
3 connections, 1 seat: 2 vertical, 1 horizontal

SAPA



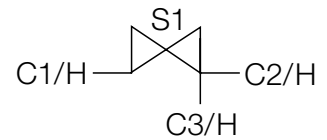
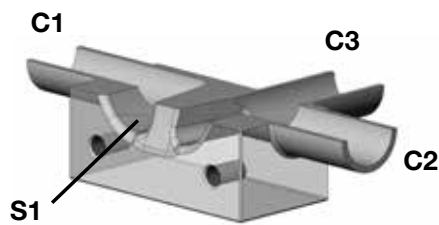
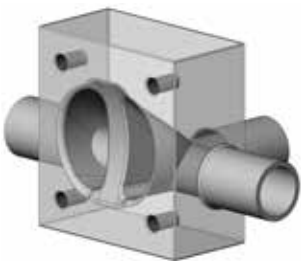
3 connections, 1 seat: 2 horizontal, 1 vertical

SAPB



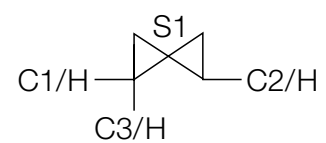
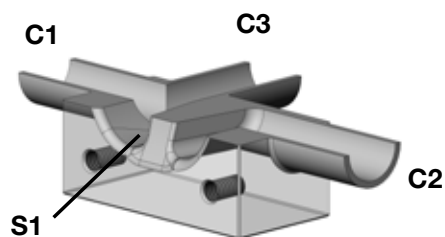
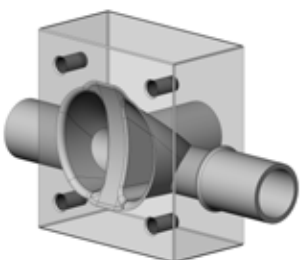
3 connections, 1 seat: 2 horizontal, 1 vertical

SAPC



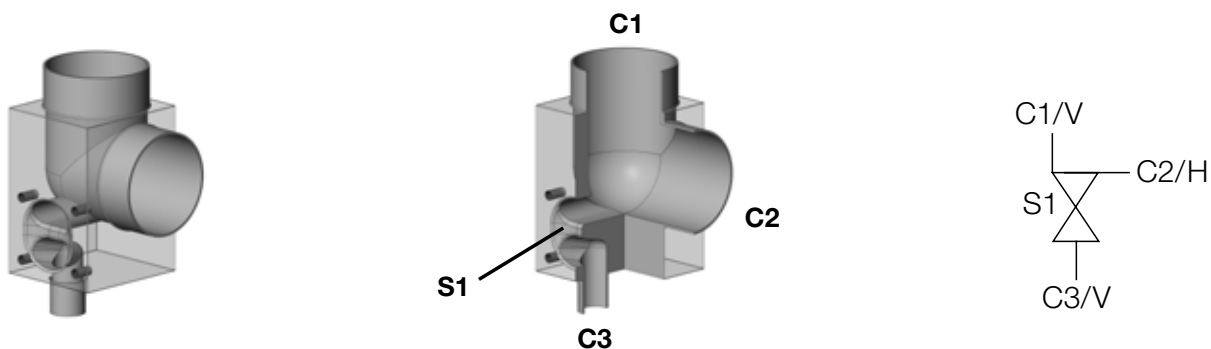
3 connections, 1 seat: 3 horizontal

SAPD



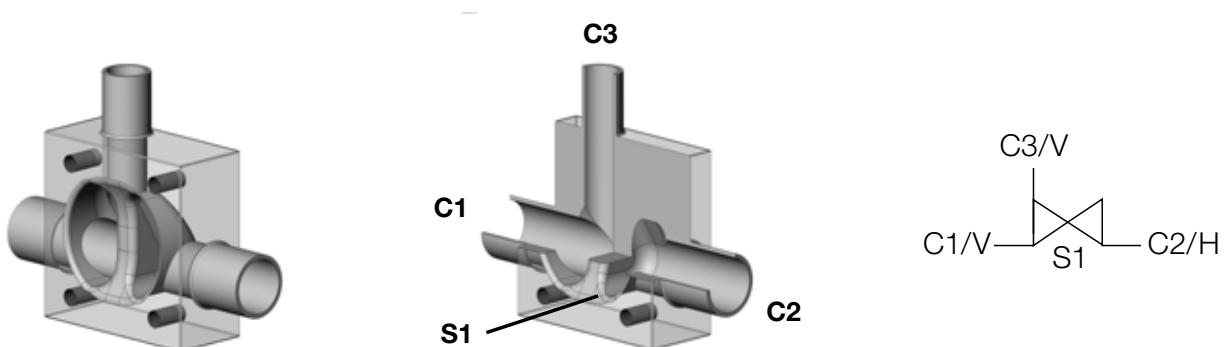
3 connections, 1 seat: 3 horizontal

0113



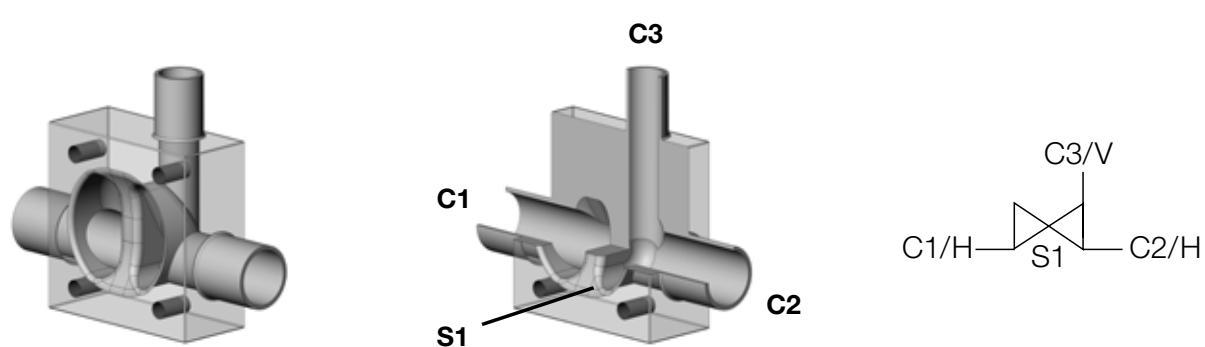
3 connections, 1 seat: 1 horizontal, 2 vertical

0114



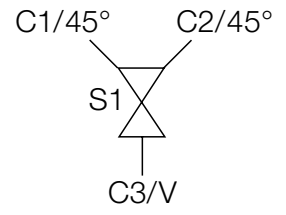
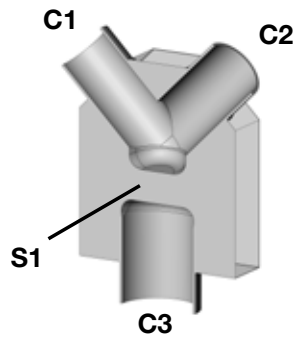
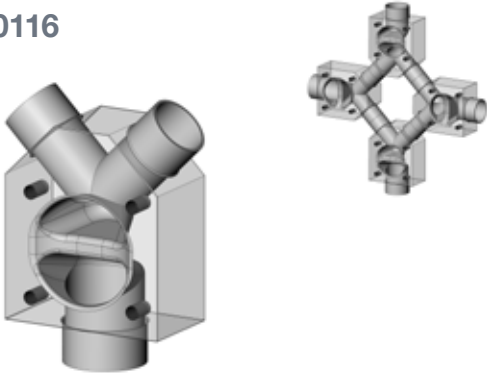
3 connections, 1 seat: 2 horizontal, 1 vertical

0115



3 connections, 1 seat: 2 horizontal, 1 vertical

0116

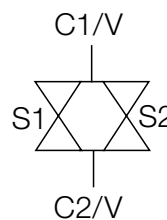
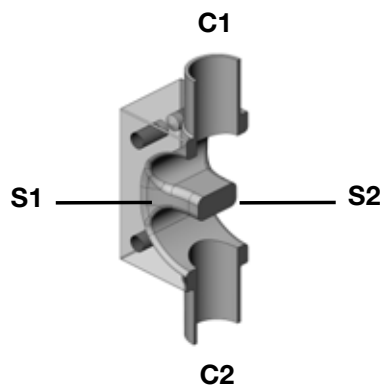
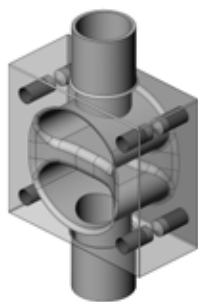


3 connections, 1 seat: 2 vertical 45°, 1 vertical

Block Solution with 2 seats

2C2S (2 connections / 2 seats)

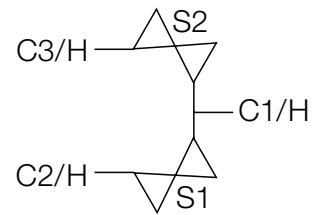
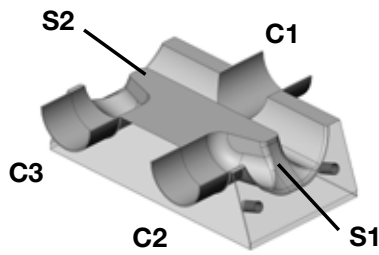
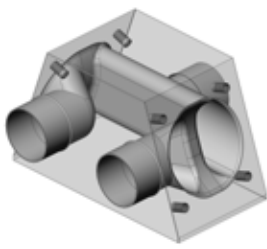
0216



2 connections, 2 seats: 2 vertical

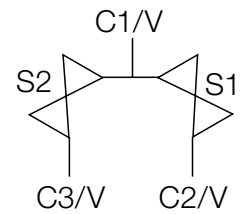
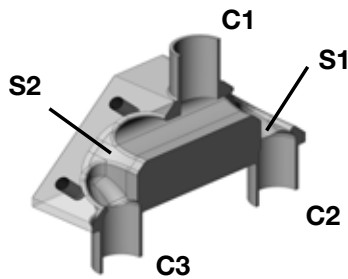
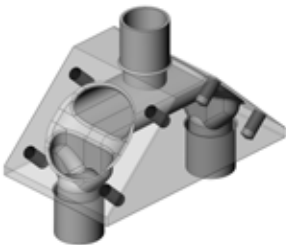
3C2S (3 connections / 2 seats)

0201



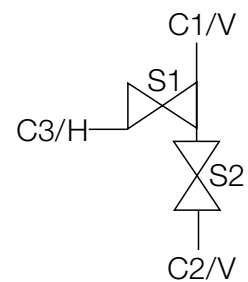
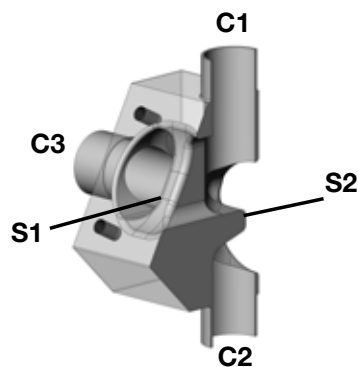
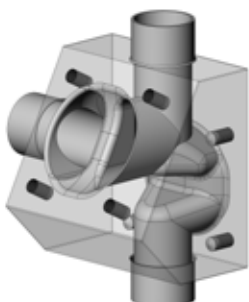
3 connections, 2 seats: 3 horizontal

0202



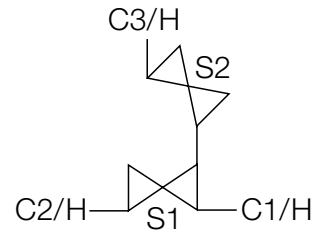
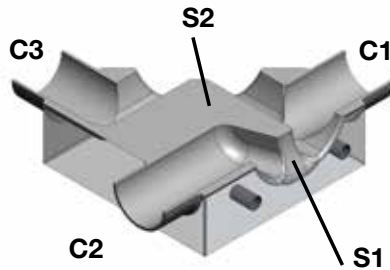
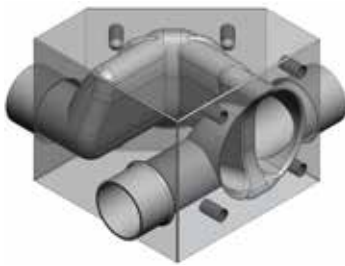
3 connections, 2 seats: 3 vertical

0208



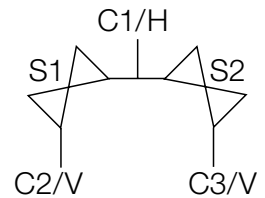
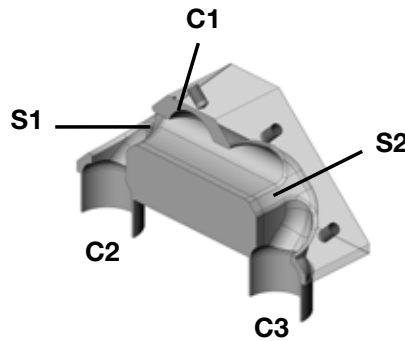
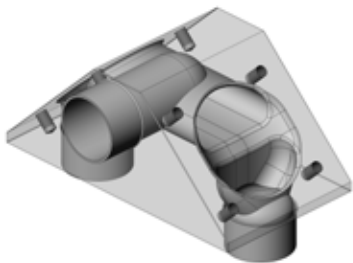
3 connections, 2 seats: 2 vertical, 1 ho

0209



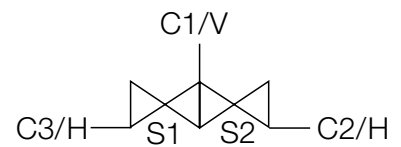
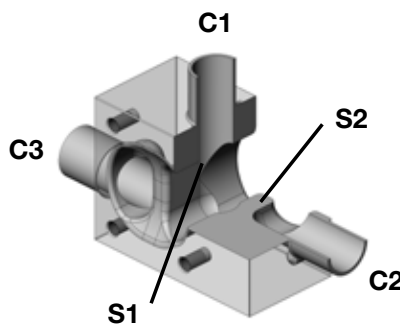
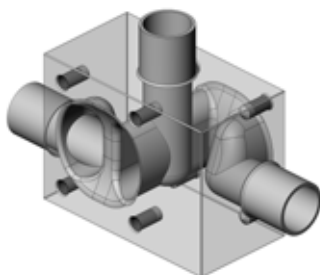
3 connections, 2 seats: 3 horizontal

0226



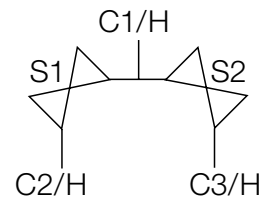
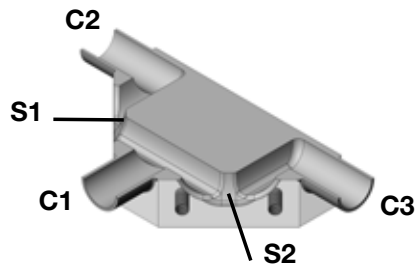
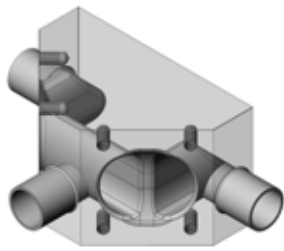
3 connections, 2 seats: 2 vertical, 1 horizontal

0227



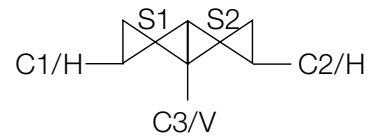
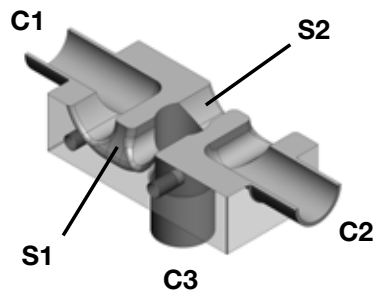
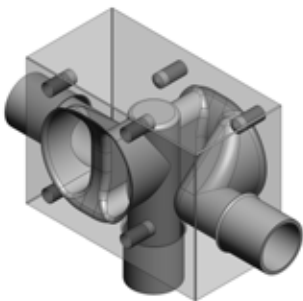
3 connections, 2 seats: 1 vertical, 2 horizontal

0232



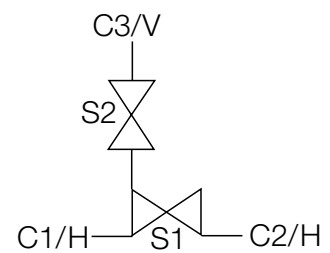
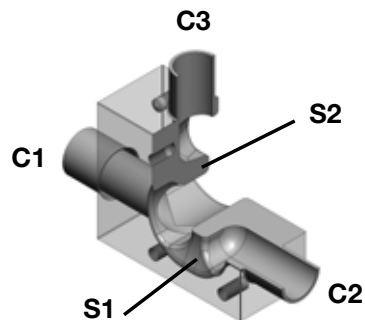
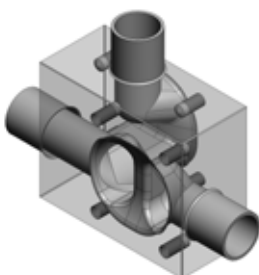
3 connections, 2 seats: 3 horizontal

0233



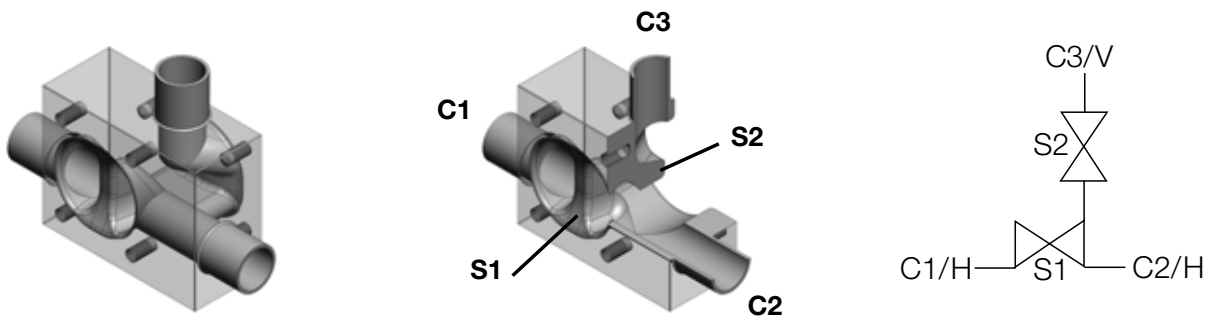
3 connections, 2 seats: 1 vertical, 2 horizontal

0234



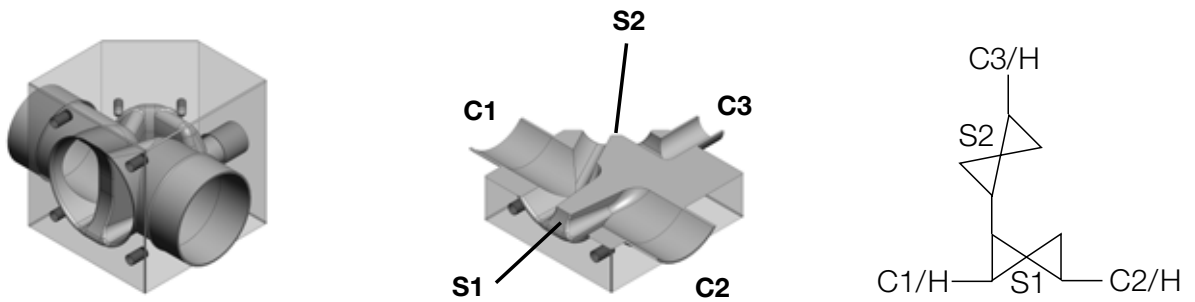
3 connections, 2 seats: 1 vertical, 2 horizontal

0236



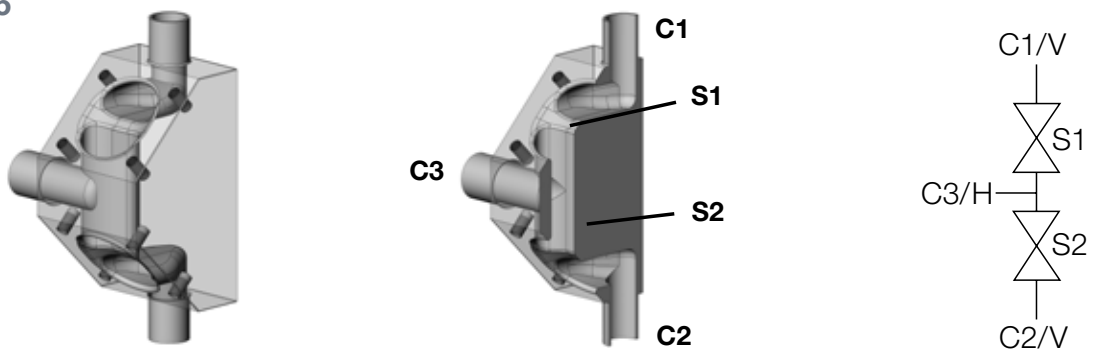
3 connections, 2 seats: 1 vertical, 2 horizontal

0237



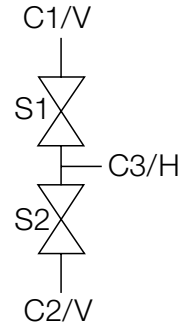
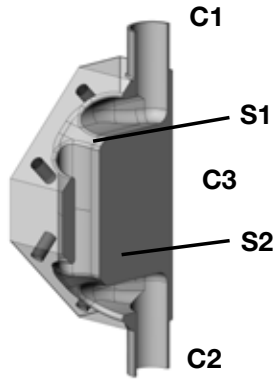
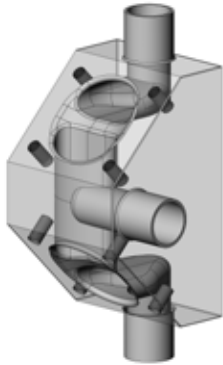
3 connections, 2 seats: 3 horizontal

0256



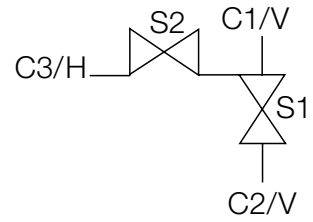
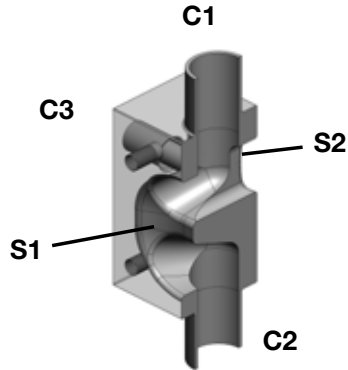
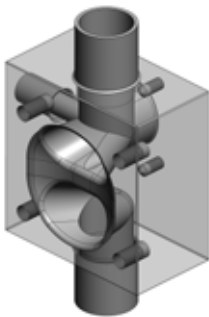
3 connections, 2 seats: 2 vertical, 1 horizontal

0257



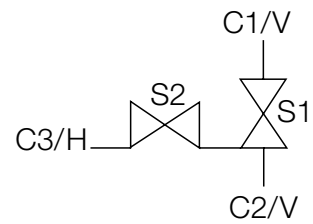
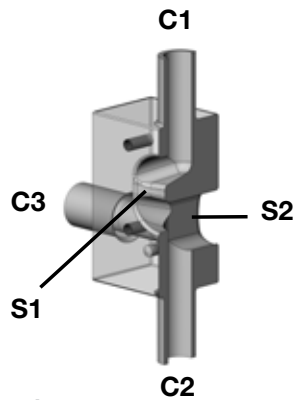
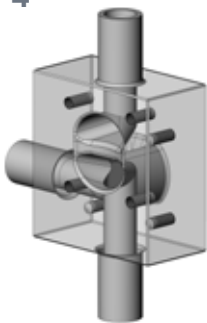
3 connections, 2 seats: 2 vertical, 1 horizontal

GMP3



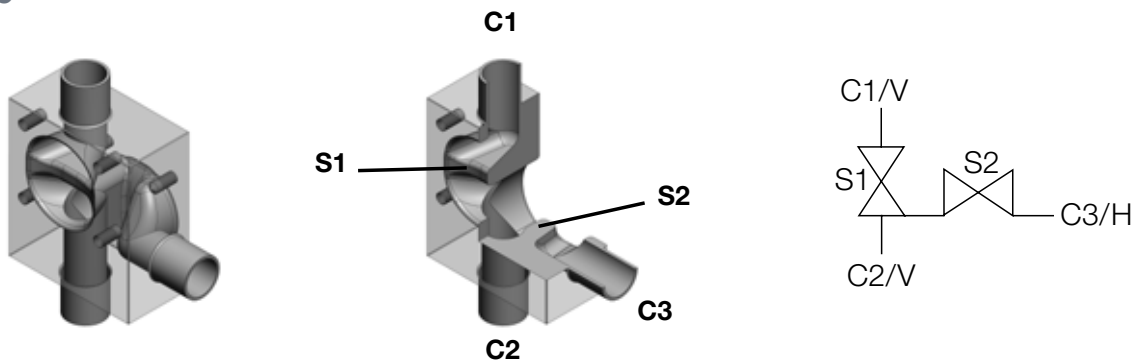
3 connections, 2 seats: 2 vertical, 1 horizontal

GMP4



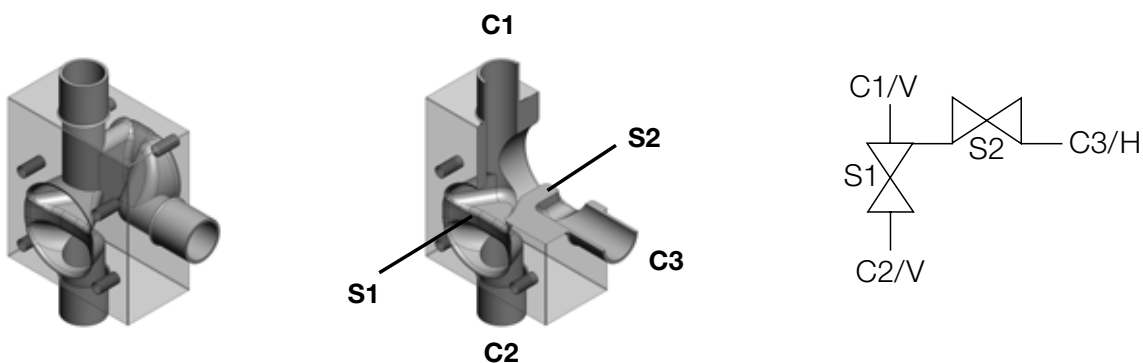
3 connections, 2 seats: 2 vertical, 1 horizontal

GMP5



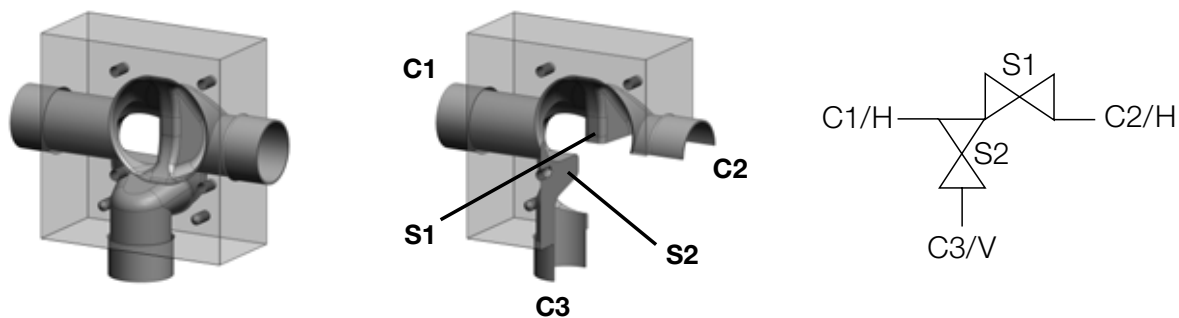
3 connections, 2 seats: 2 vertical, 1 horizontal

GMP6



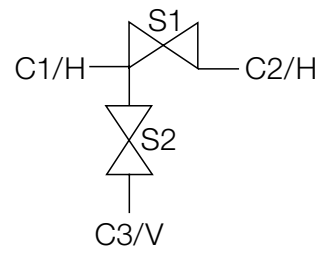
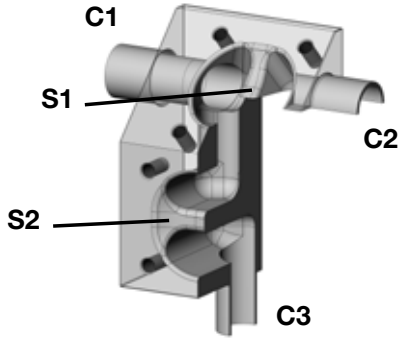
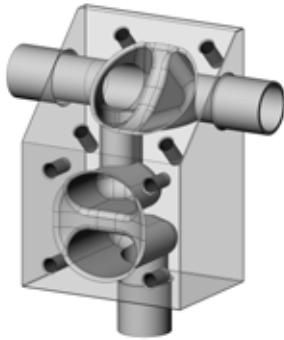
3 connections, 2 seats: 2 vertical, 1 horizontal

SAP1



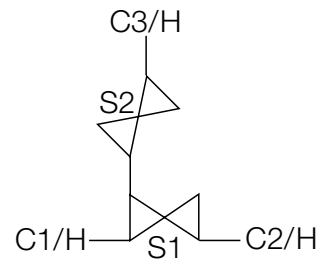
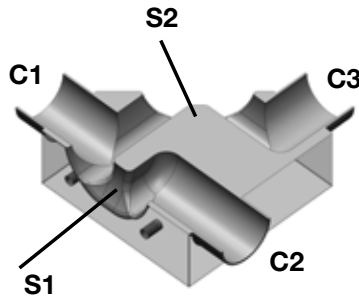
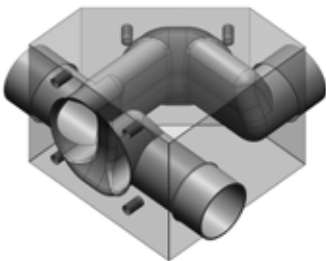
3 connections, 2 seats: 1 vertical, 2 horizontal

SAP2



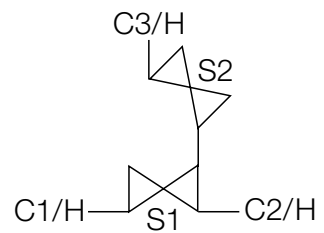
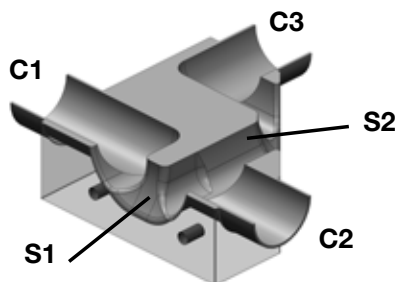
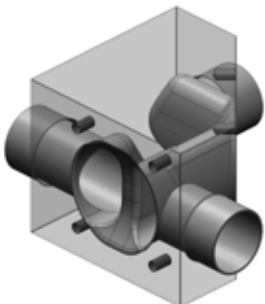
3 connections, 2 seats: 1 vertical, 2 horizontal

SAP3



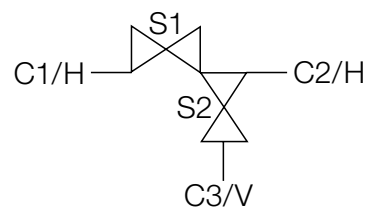
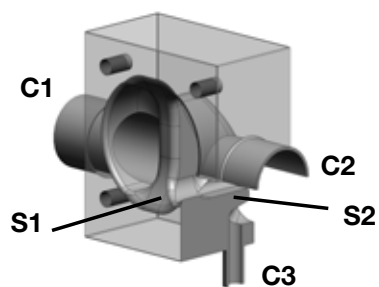
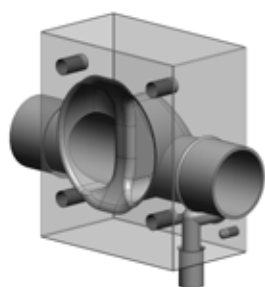
3 connections, 2 seats: 3 horizontal

SAP4



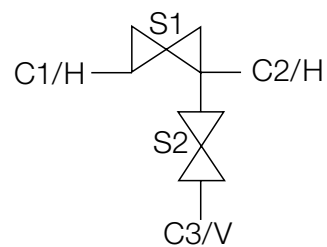
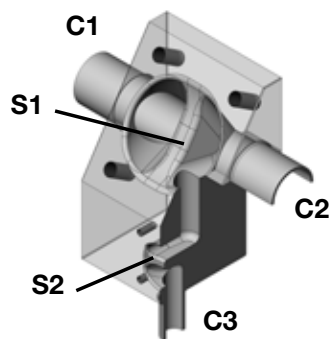
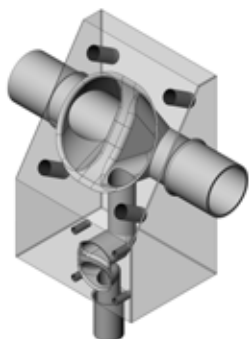
3 connections, 2 seats: 3 horizontal

SAP7



3 connections, 2 seats: 1 vertical, 2 horizontal

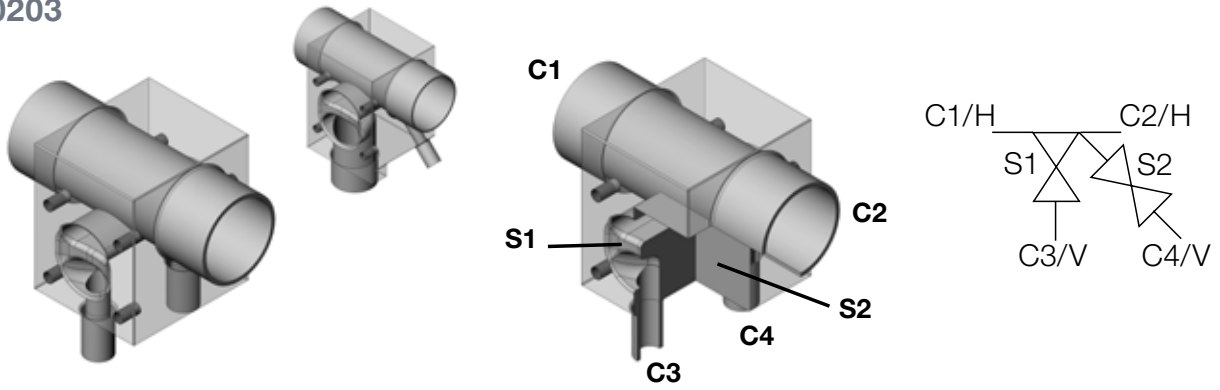
SAP8



3 connections, 2 seats: 1 vertical, 2 horizontal

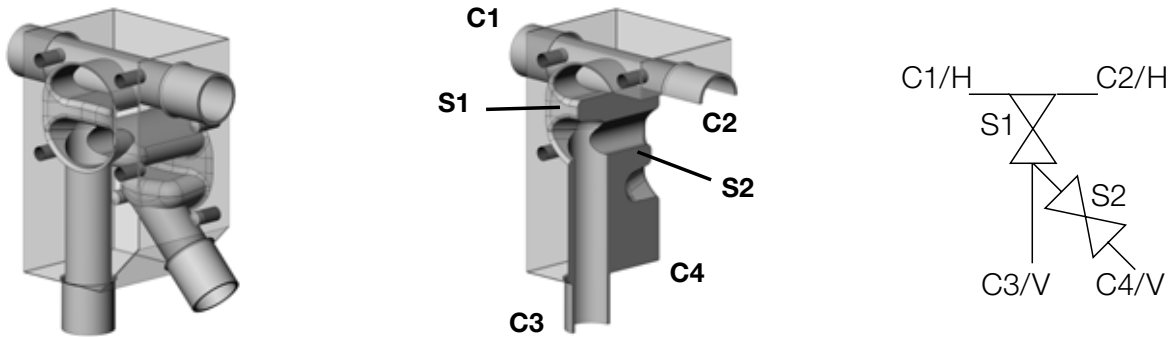
4C2S (4 connections / 2 seats)

0203



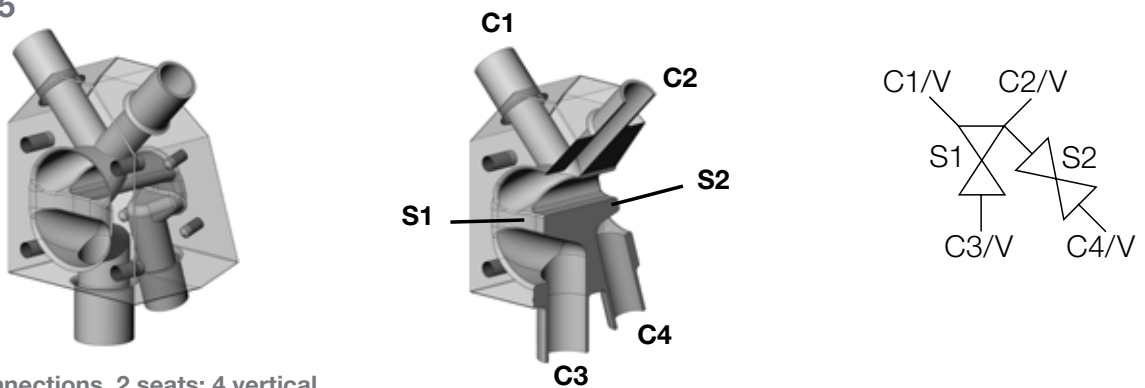
4 connections, 2 seats: 2 vertical, 2 horizontal

0204



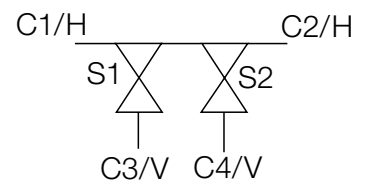
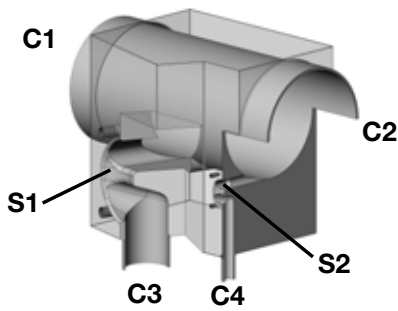
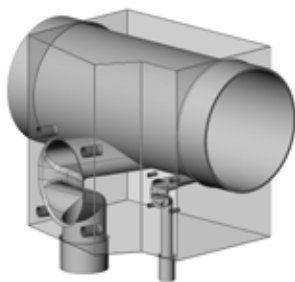
4 connections, 2 seats: 2 vertical, 2 horizontal

0205



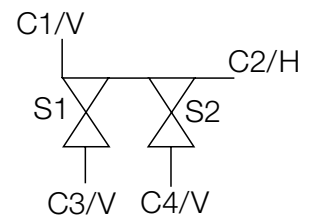
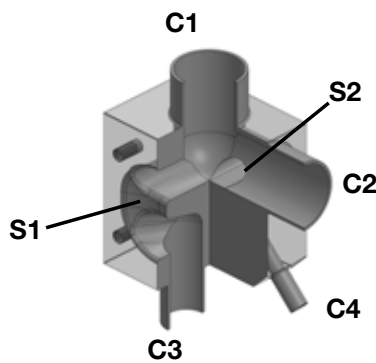
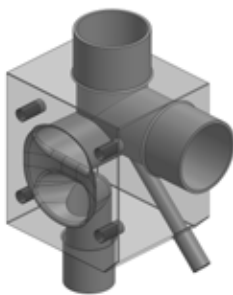
4 connections, 2 seats: 4 vertical

0235



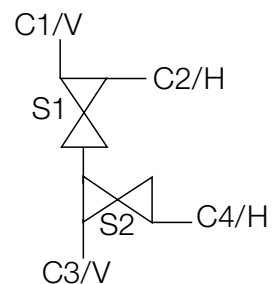
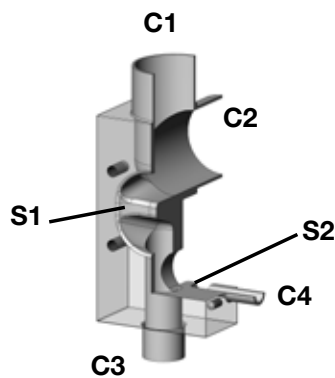
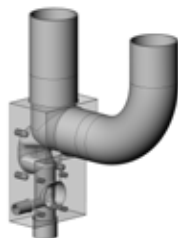
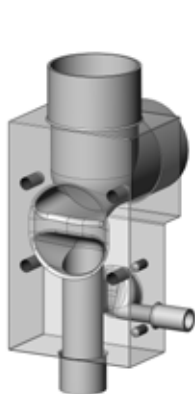
4 connections, 2 seats: 2 vertical, 2 horizontal

0249



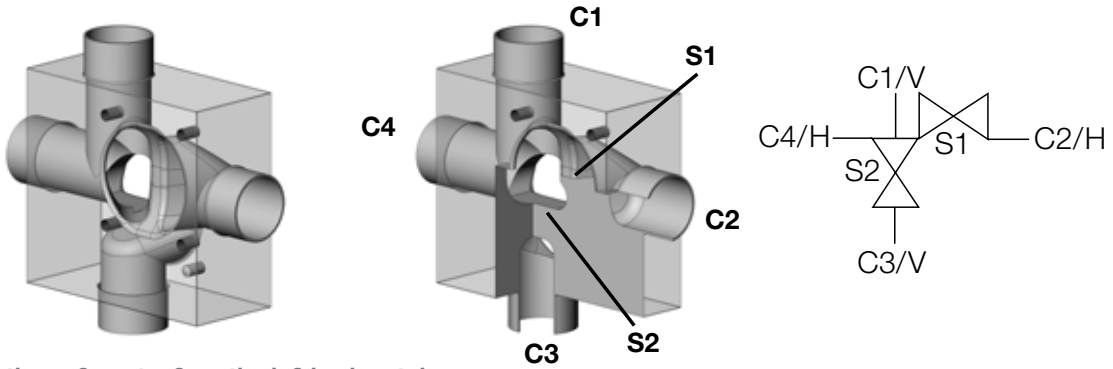
4 connections, 2 seats: 3 vertical, 1 horizontal

0250



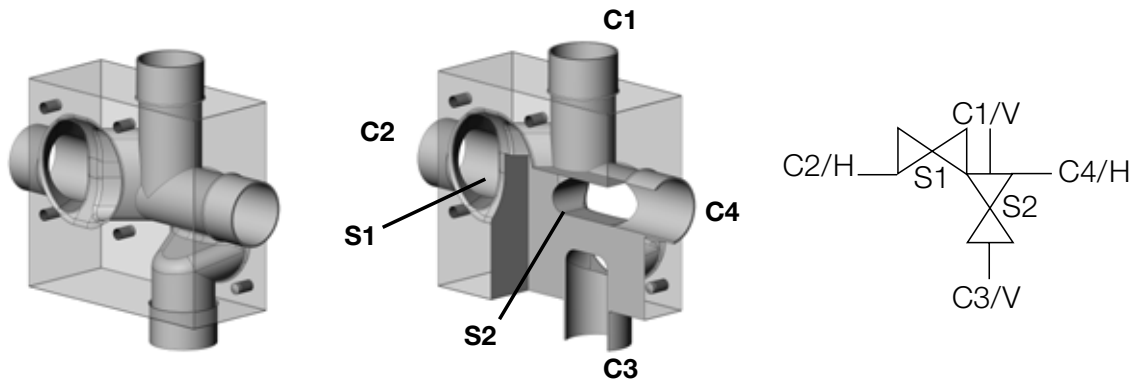
4 connections, 2 seats: 2 vertical, 2 horizontal

0253



4 connections, 2 seats: 2 vertical, 2 horizontal

0254

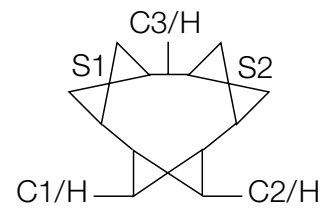
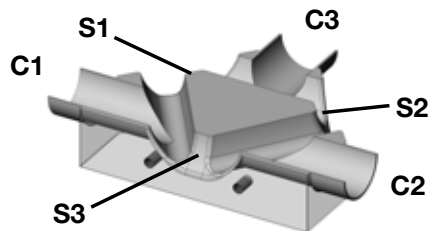
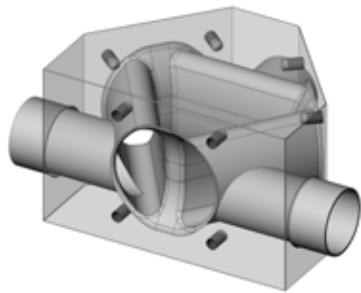


4 connections, 2 seats: 2 vertical, 2 horizontal

Block Solution with 3 seats

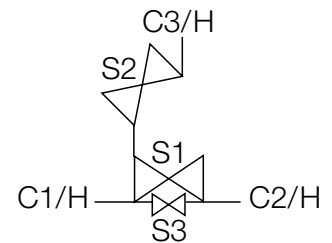
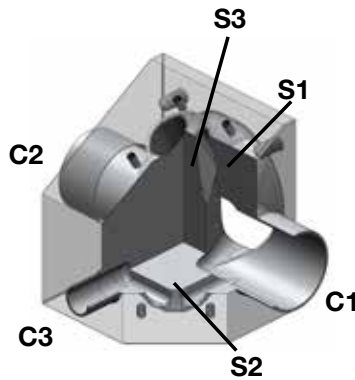
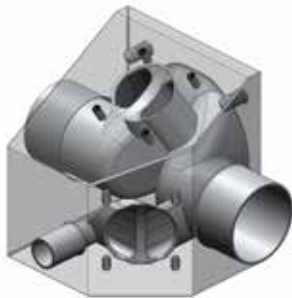
3C3S (3 connections / 3 seats)

0316



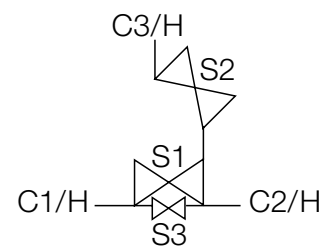
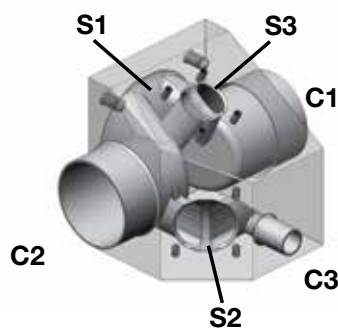
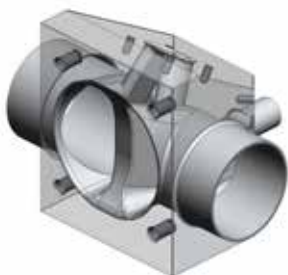
3 connections, 3 seats: 3 horizontal

0325



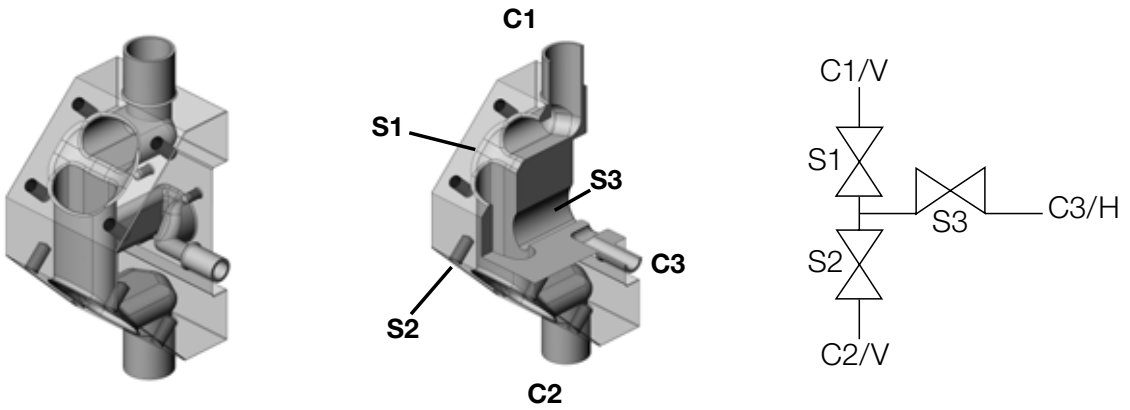
3 connections, 3 seats: 3 horizontal

0328



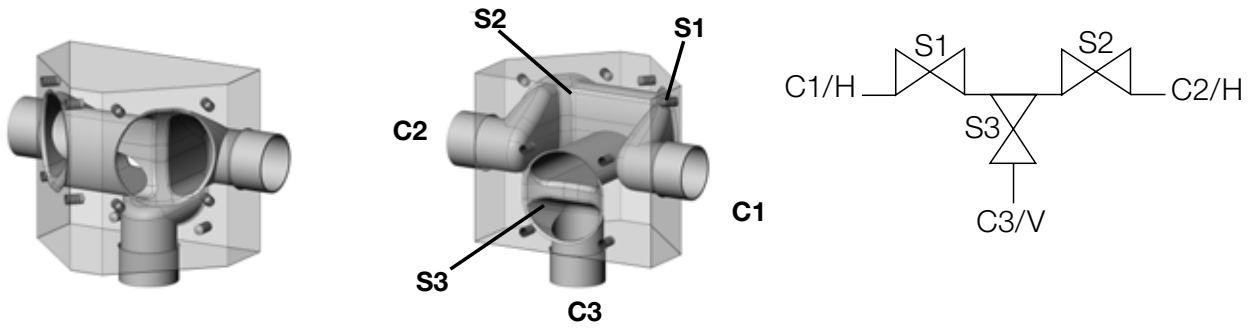
3 connections, 3 seats: 3 horizontal

0333



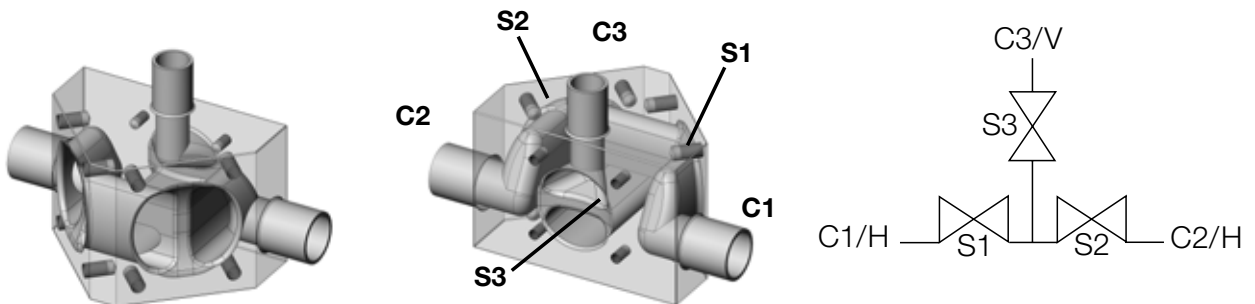
3 connections, 3 seats: 2 vertical, 1 horizontal

0334



3 connections, 3 seats: 1 vertical, 2 horizontal

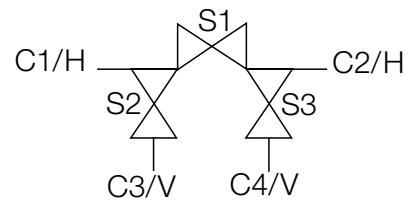
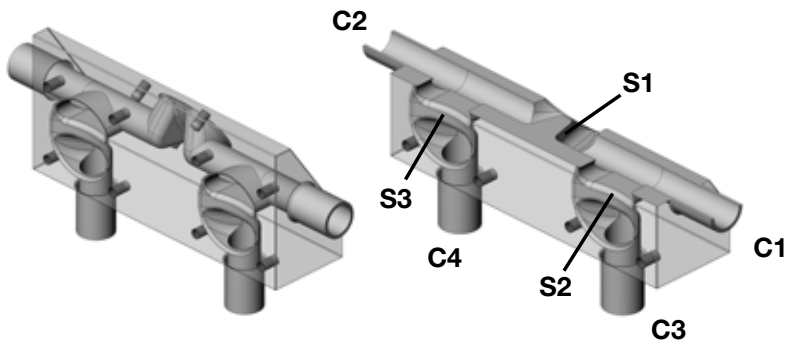
0339



3 connections, 3 seats: 1 vertical, 2 horizontal

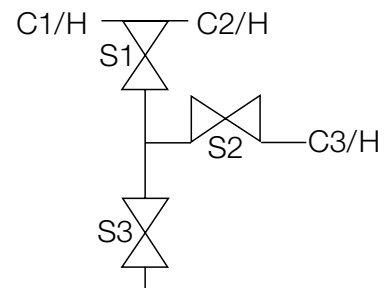
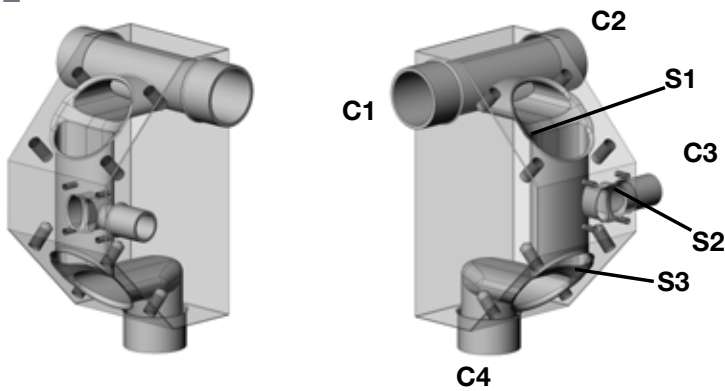
4C3S (4 connections / 3 seats)

0301



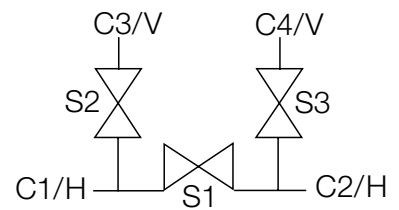
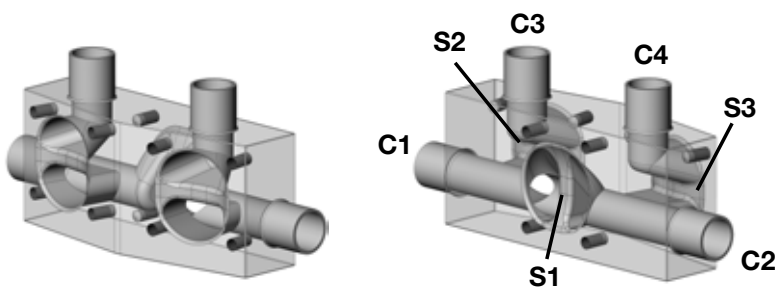
4 connections, 3 seats: 2 vertical, 2 horizontal

0302



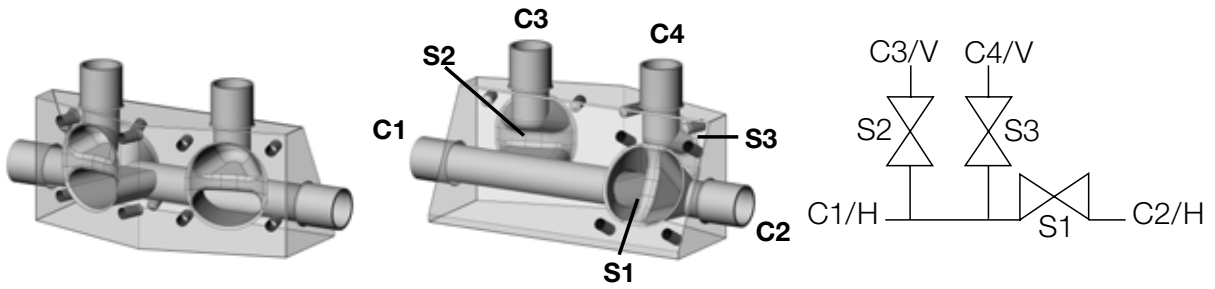
4 connections, 3 seats: 1 vertical, 3 horizontal

0303



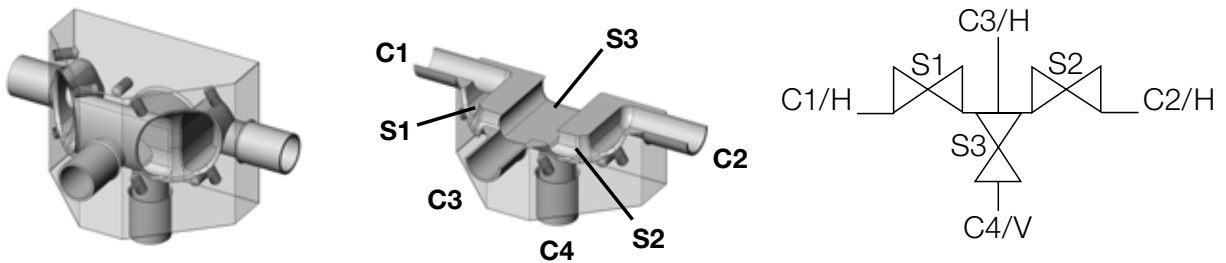
4 connections, 3 seats: 2 vertical, 2 horizontal

0304



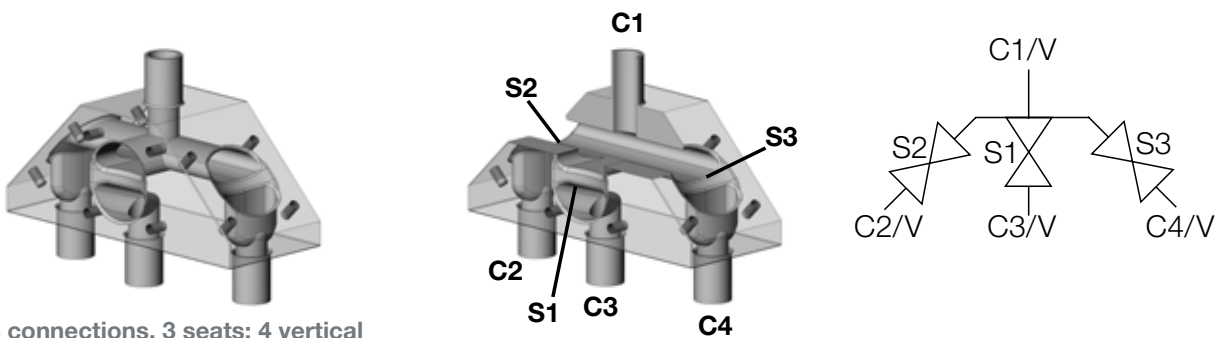
4 connections, 3 seats: 2 vertical, 2 horizontal

0317



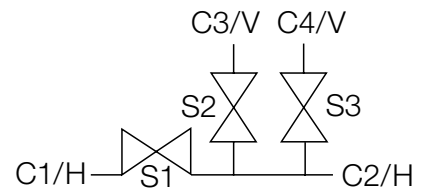
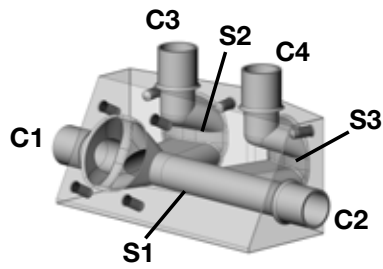
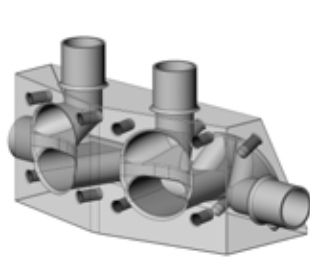
4 connections, 3 seats: 1 vertical, 3 horizontal

0319



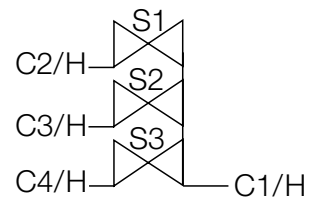
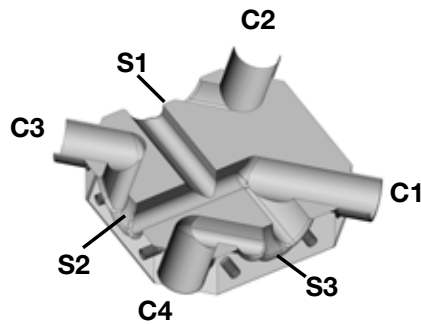
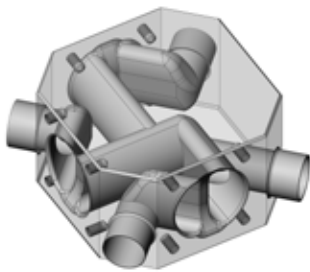
4 connections, 3 seats: 4 vertical

0321



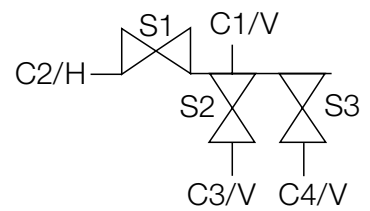
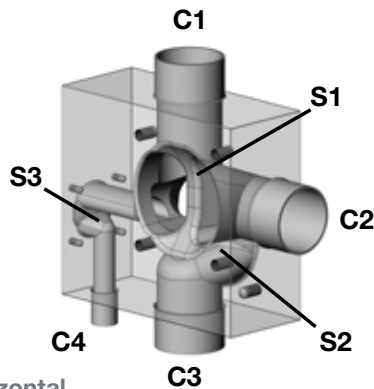
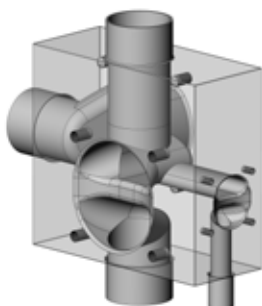
4 connections, 3 seats: 2 vertical, 2 horizontal

0322



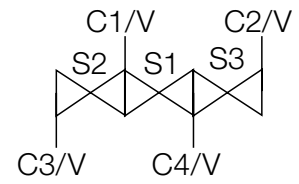
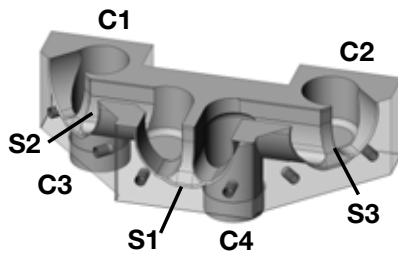
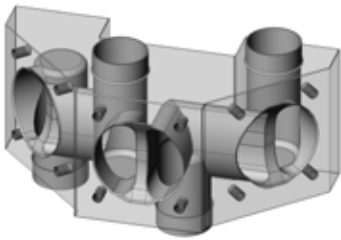
4 connections, 3 seats: 4 horizontal

0326



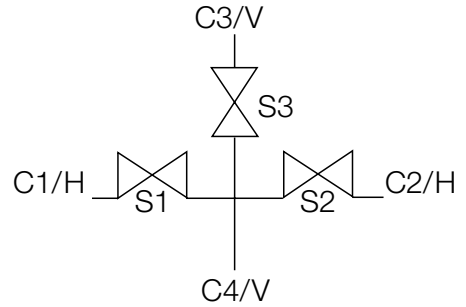
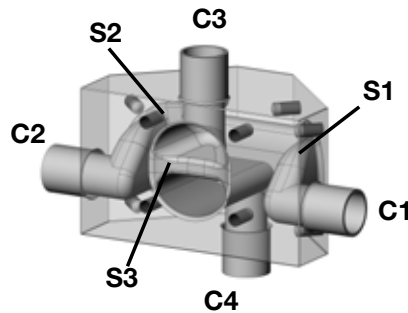
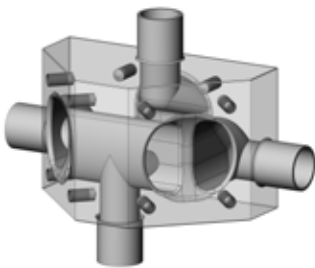
4 connections, 3 seats: 3 vertical, 1 horizontal

0329



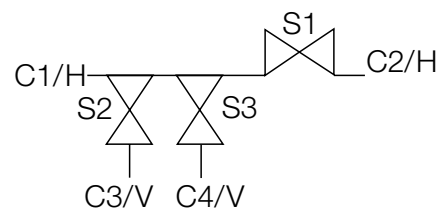
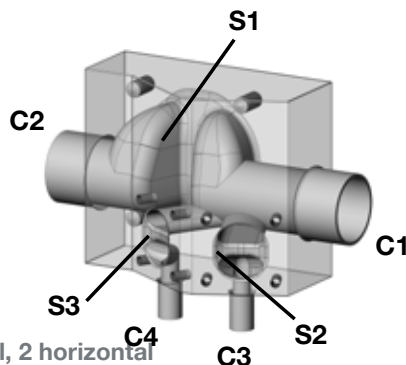
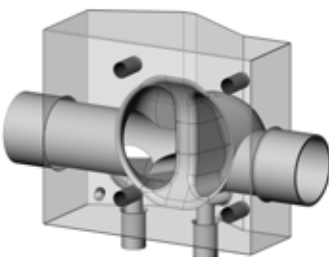
4 connections, 3 seats: 4 vertical

0335



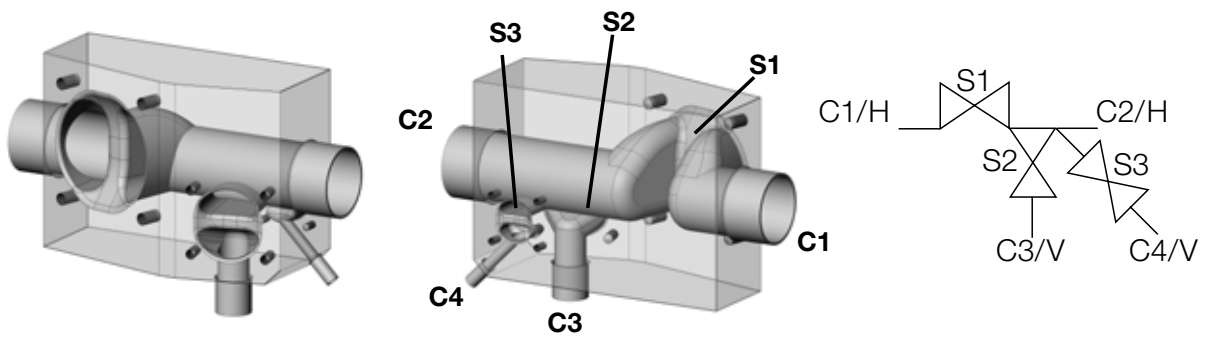
4 connections, 3 seats: 2 vertical, 2 horizontal

0336



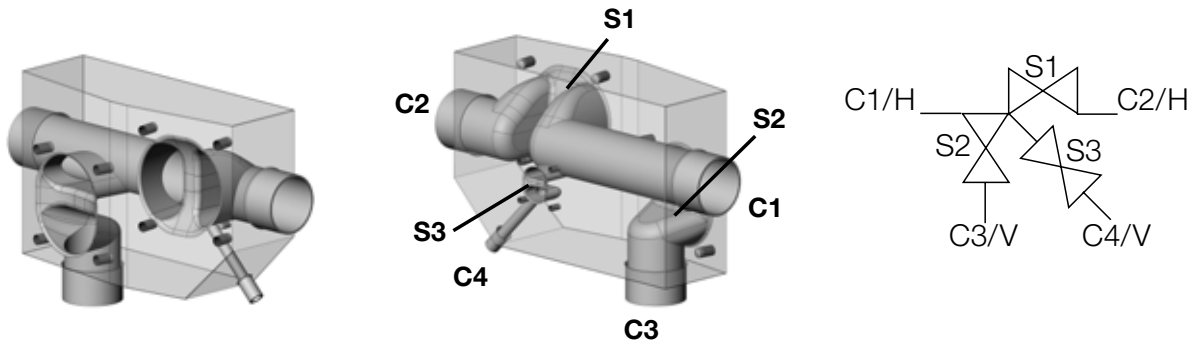
4 connections, 3 seats: 2 vertical, 2 horizontal

0337



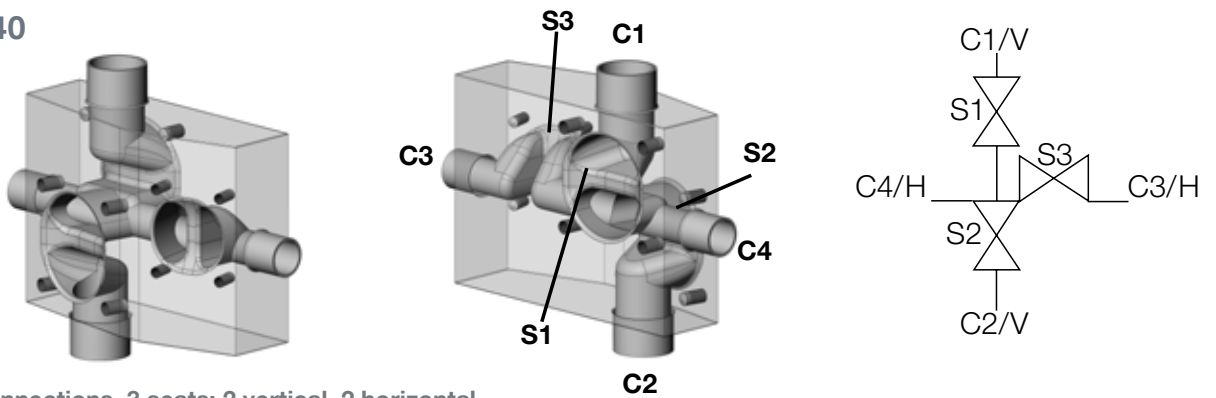
4 connections, 3 seats: 2 vertical, 2 horizontal

0338



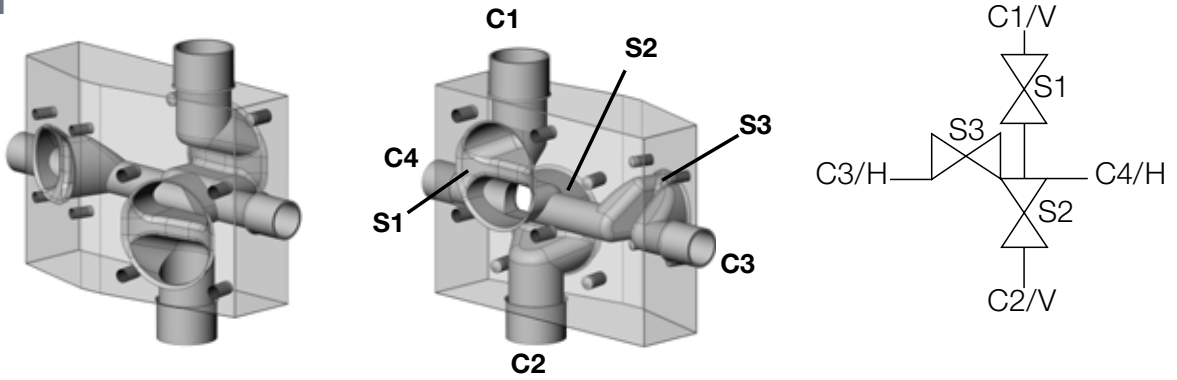
4 connections, 3 seats: 2 vertical, 2 horizontal

0340



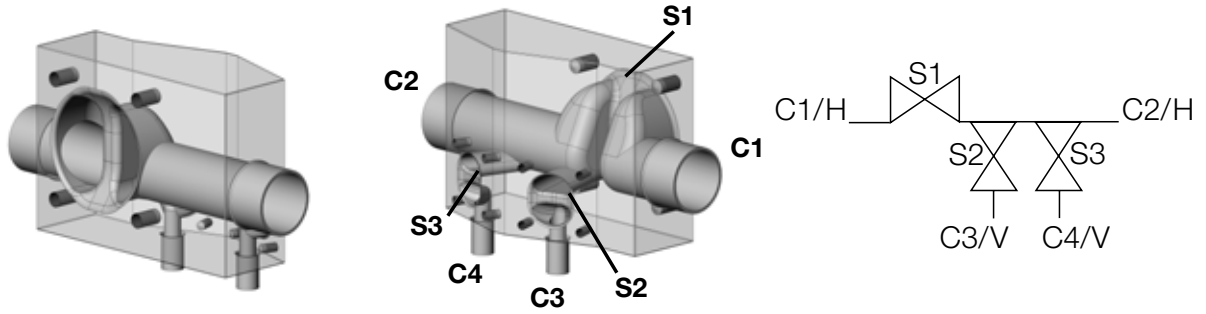
4 connections, 3 seats: 2 vertical, 2 horizontal

0341



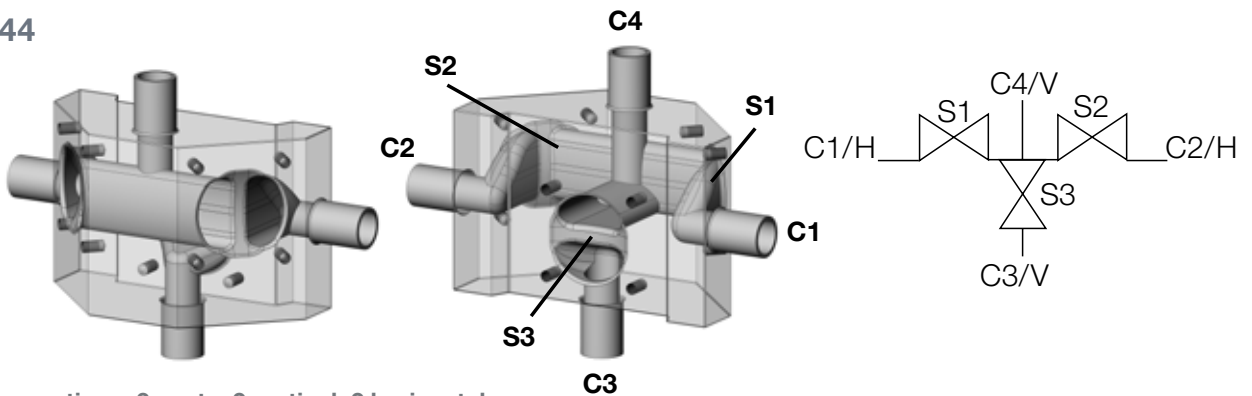
4 connections, 3 seats: 2 vertical, 2 horizontal

0343



4 connections, 3 seats: 2 vertical, 2 horizontal

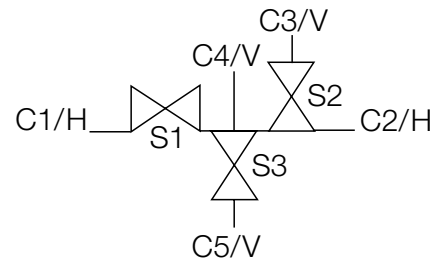
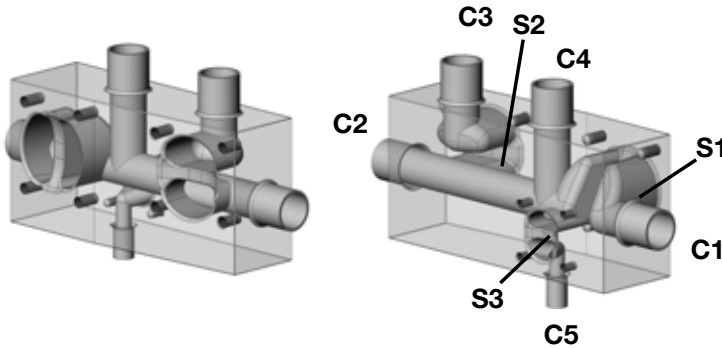
0344



4 connections, 3 seats: 2 vertical, 2 horizontal

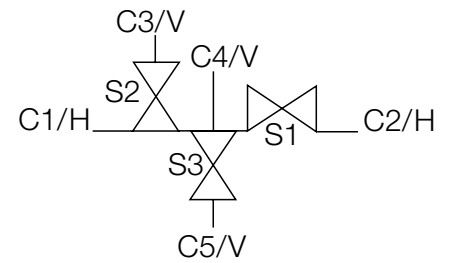
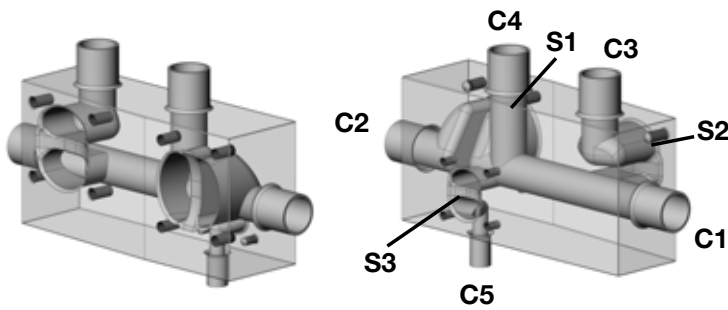
5C3S (5 connections / 3 seats)

0323



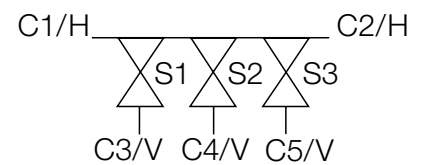
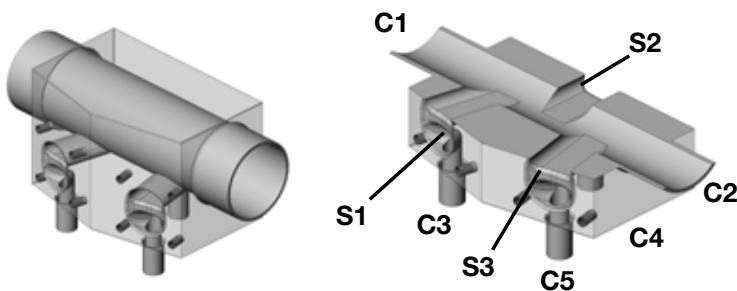
5 connections, 3 seats: 3 vertical, 2 horizontal

0327



5 connections, 3 seats: 3 vertical, 2 horizontal

0342

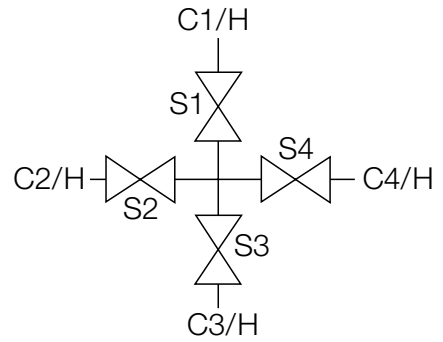
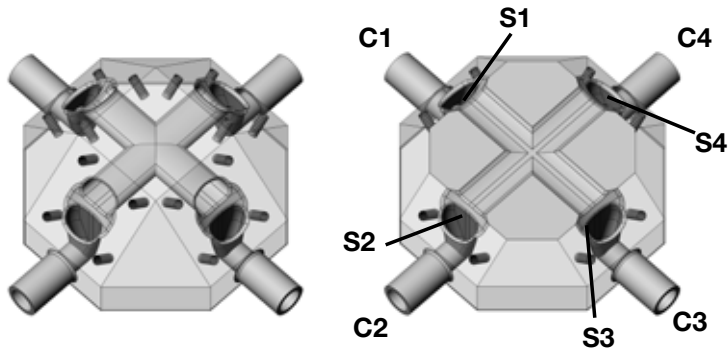


5 connections, 3 seats: 3 vertical, 2 horizontal

Block Solution with 4 seats

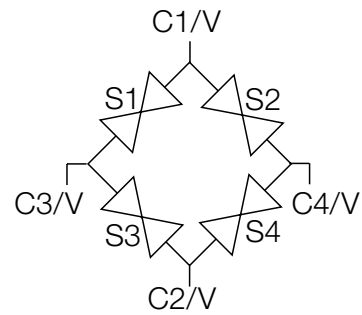
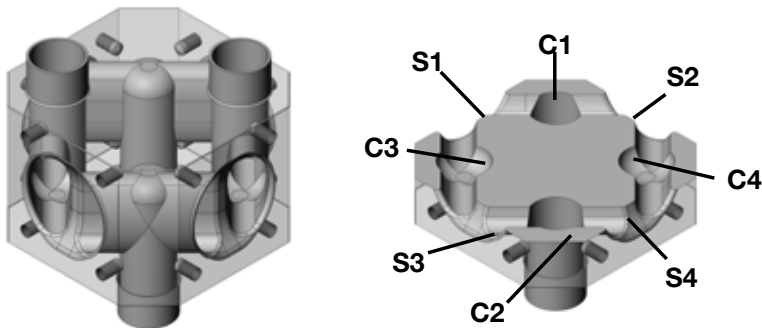
4C4S (4 connections / 4 seats)

0413



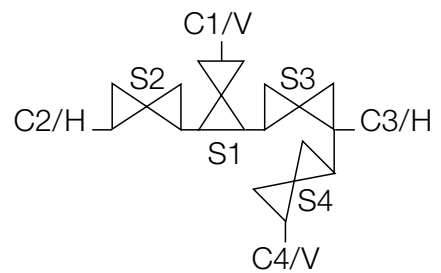
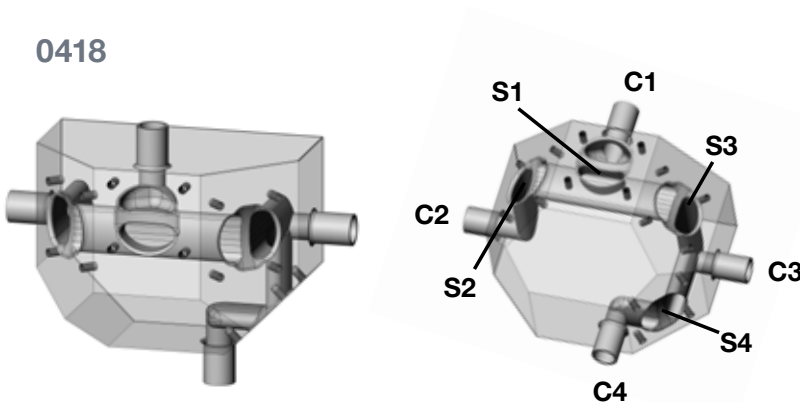
4 connections, 4 seats: 4 horizontal

0415



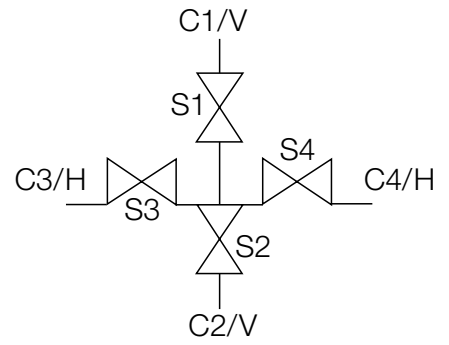
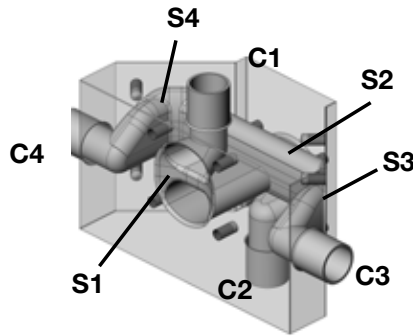
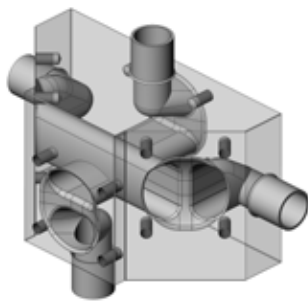
4 connections, 4 seats: 4 vertical

0418



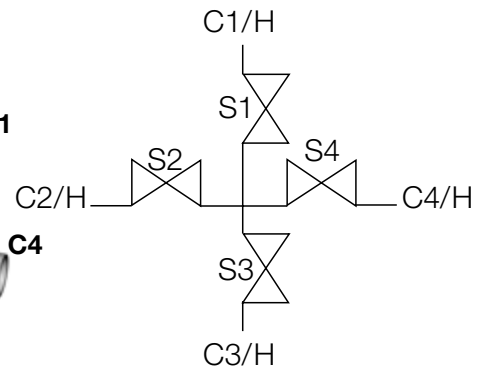
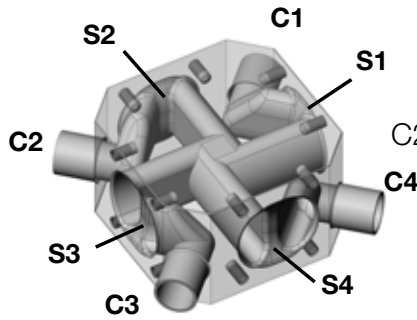
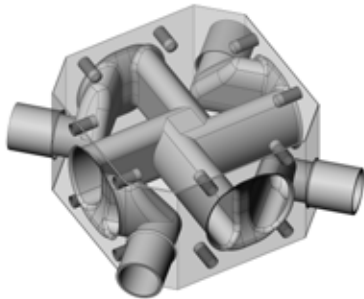
4 connections, 4 seats: 2 vertical, 2 horizontal

0423



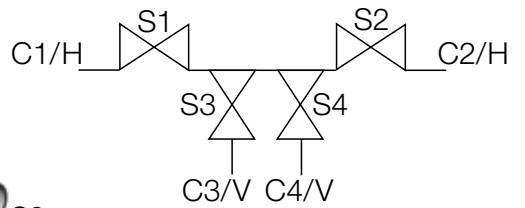
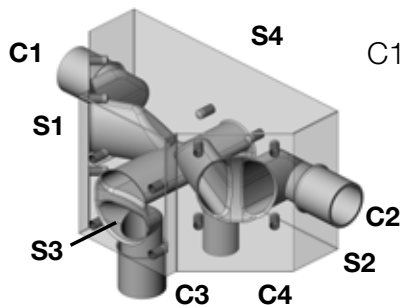
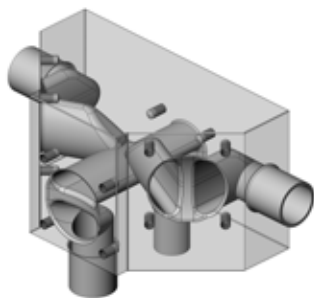
4 connections, 4 seats: 2 vertical, 2 horizontal

0410



4 connections, 4 seats: 4 horizontal

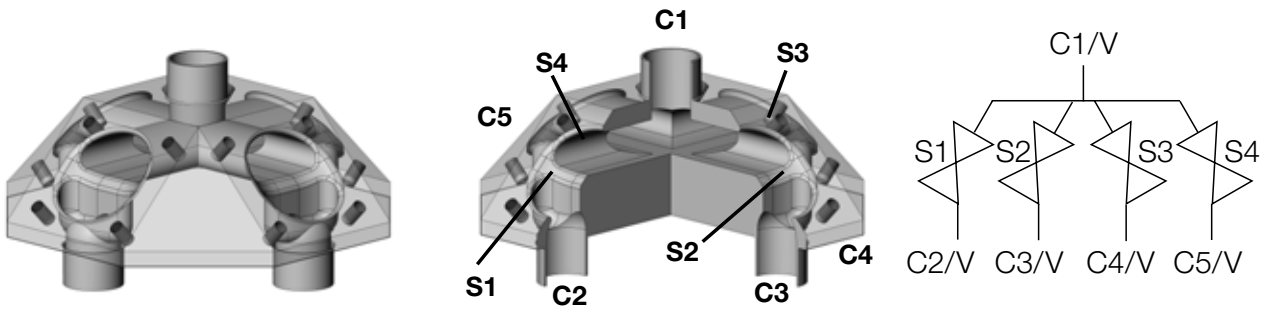
0409



4, 4 seats: 2 vertical, 2 horizontal

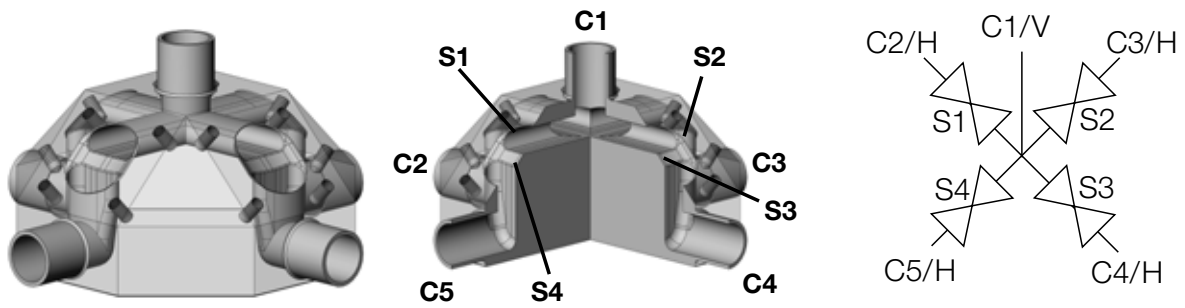
5C4S (5 connections / 4 seats)

0403



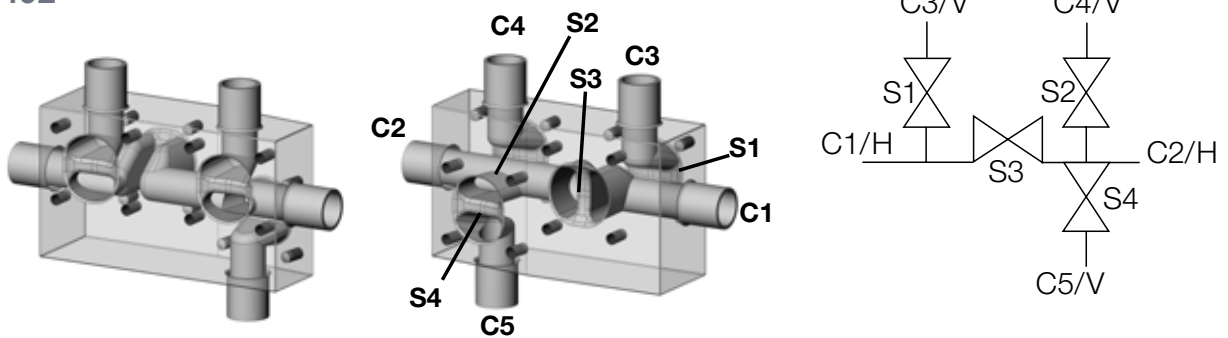
5 connections, 4 seats: 5 vertical

0416



5 connections, 4 seats: 1 vertical, 4 horizontal

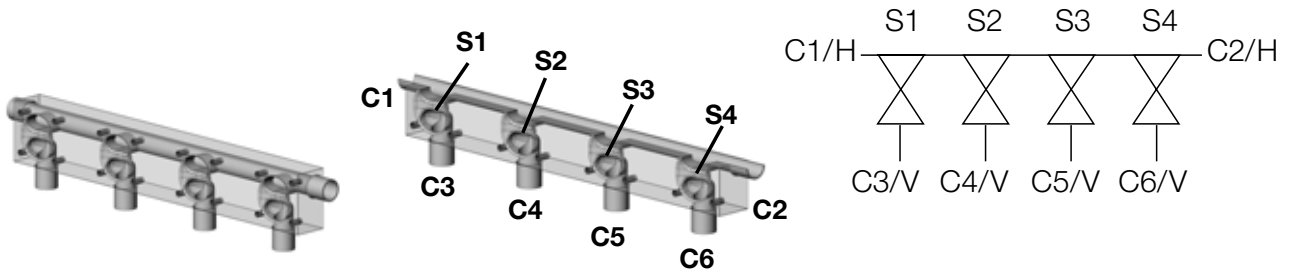
0492



5 connections, 4 seats: 3 vertical, 2 horizontal

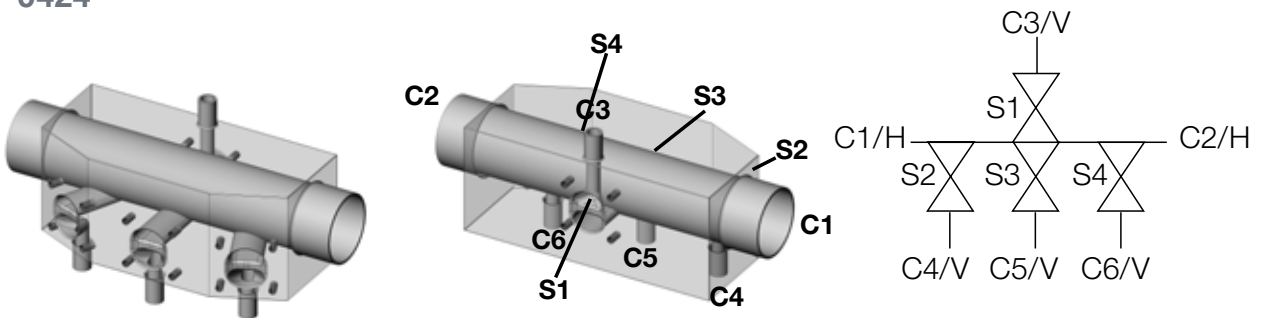
6C4S (6 connections / 4 seats)

0417



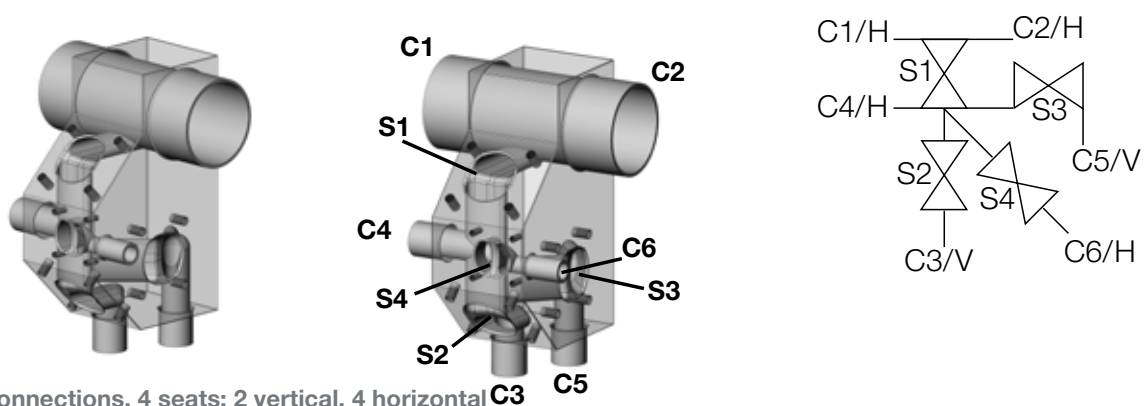
6 connections, 4 seats: 4 vertical, 2 horizontal

0424



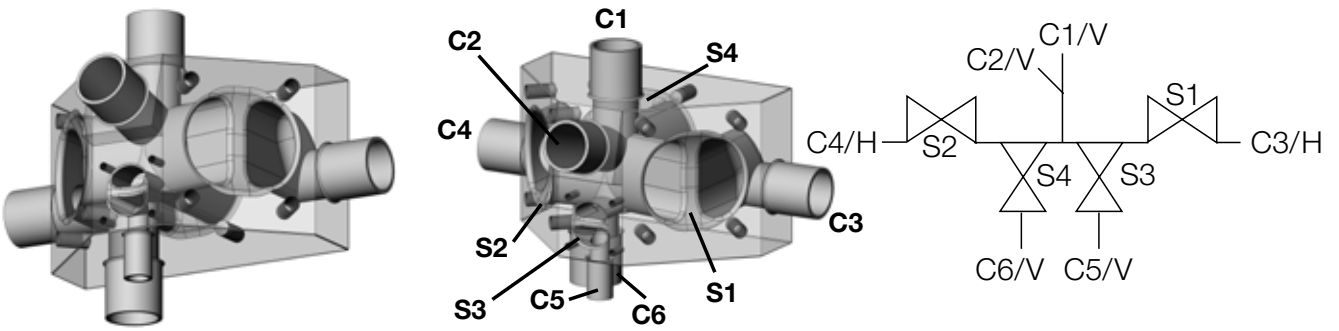
6 connections, 4 seats: 4 vertical, 2 horizontal

0425



6 connections, 4 seats: 2 vertical, 4 horizontal

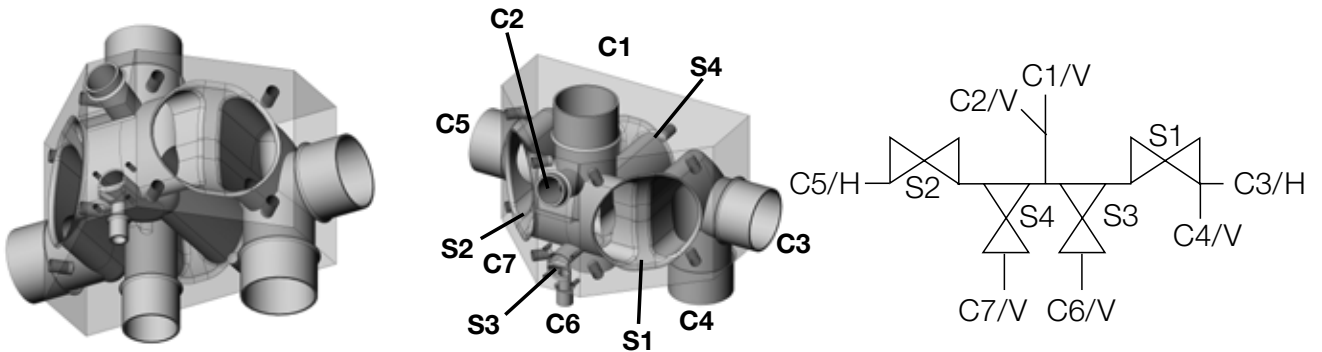
0476



6 connections, 4 seats: 4 vertical, 2 horizontal

7C4S (7 connections / 4 seats)

0477

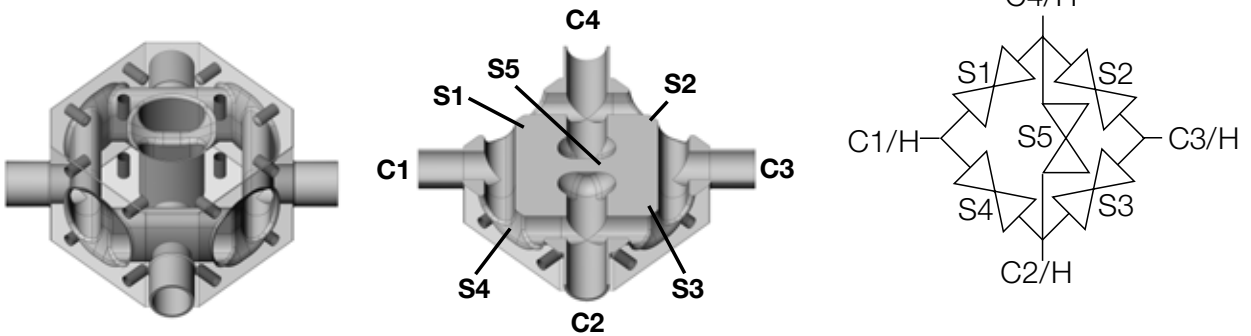


7 connections, 4 seats: 5 vertical, 2 horizontal

Block Solution with 5 seats

4C5S (4 connections / 5 seats)

0501

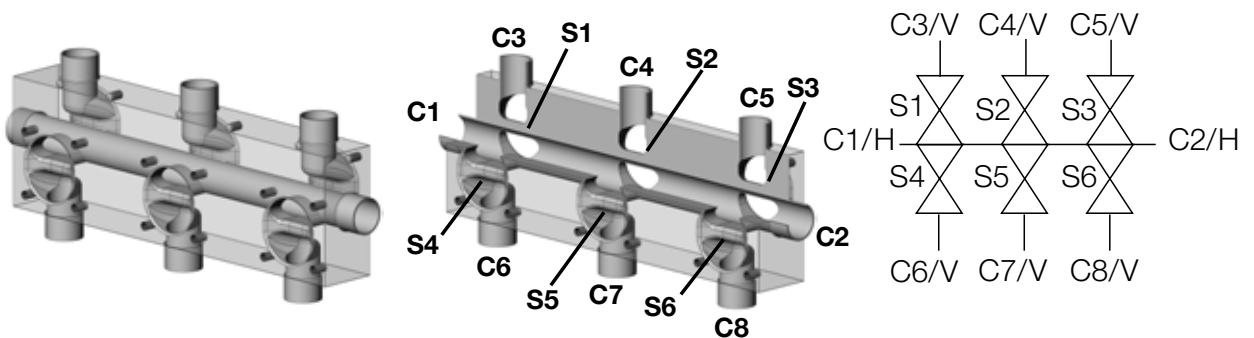


4 connections, 5 seats: 4 horizontal

Block Solution with 6 seats

8C6S (8 connections / 6 seats)

0602

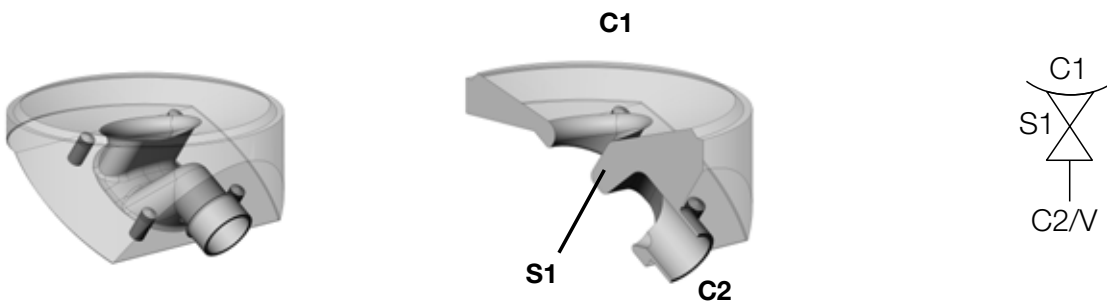


8 connections, 6 seats: 6 vertical, 2 horizontal

Block Solution for tanks

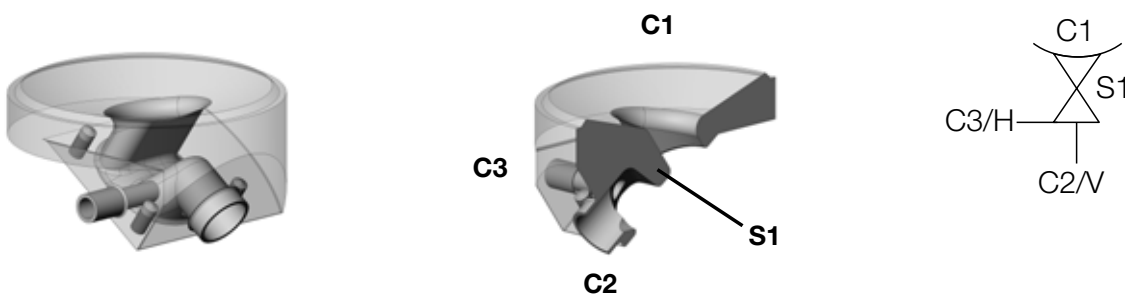
Tank bottom valve

Tank valve Standard



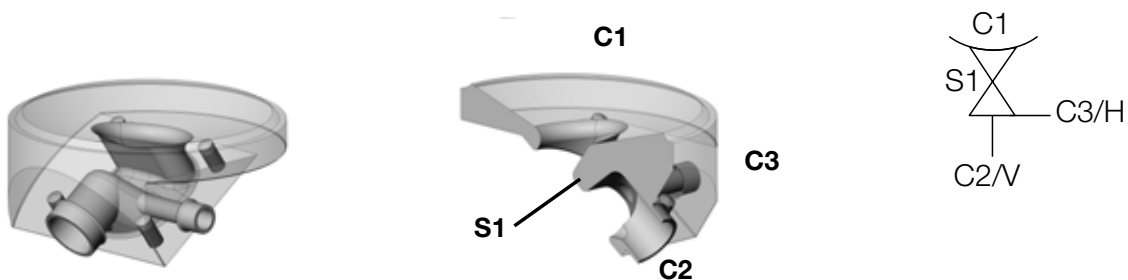
2 connections, 1 seat: 2 vertical

NBxx left



3 connections, 1 seat: 2 vertical, 1 horizontal

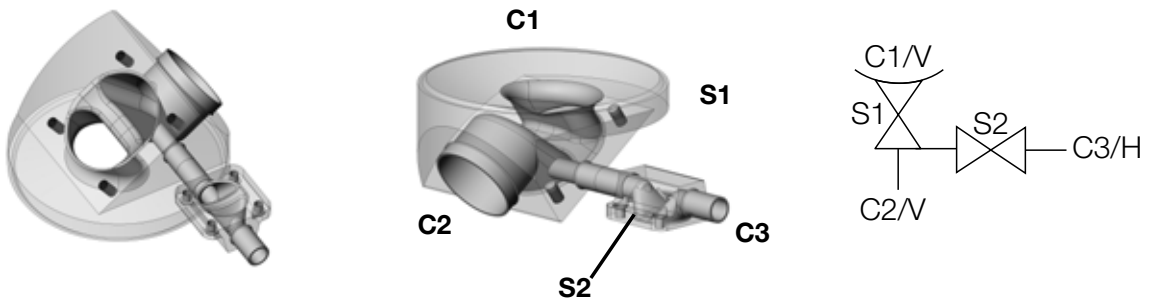
NBxx right



3 connections, 1 seat: 2 vertical, 1 horizontal

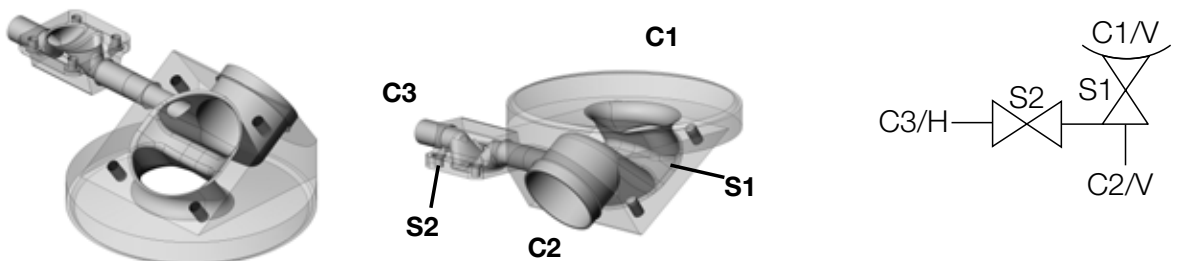
Tank bottom valve with welded on diaphragm valve

0231



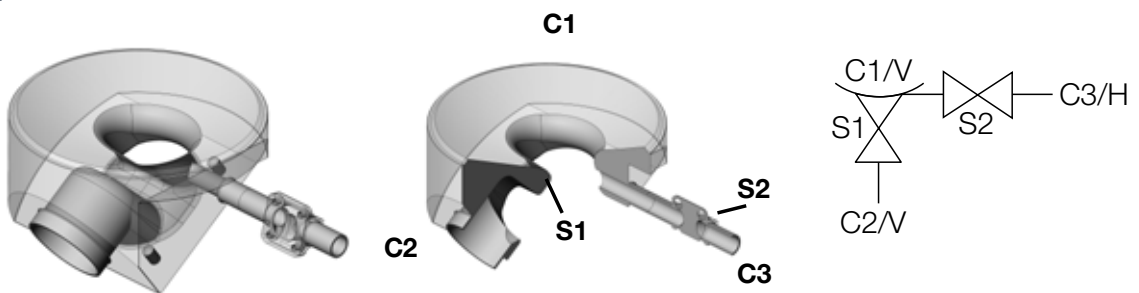
3 connections, 2 seats: 2 vertical, 1 horizontal

0243



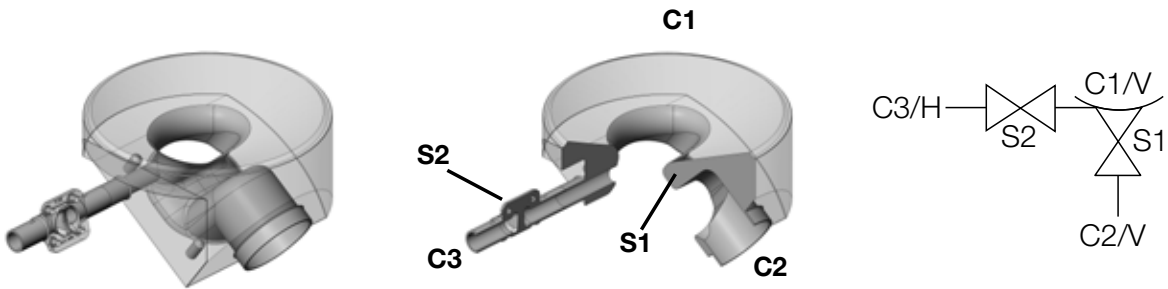
3 connections, 2 seats: 2 vertical, 1 horizontal

0247



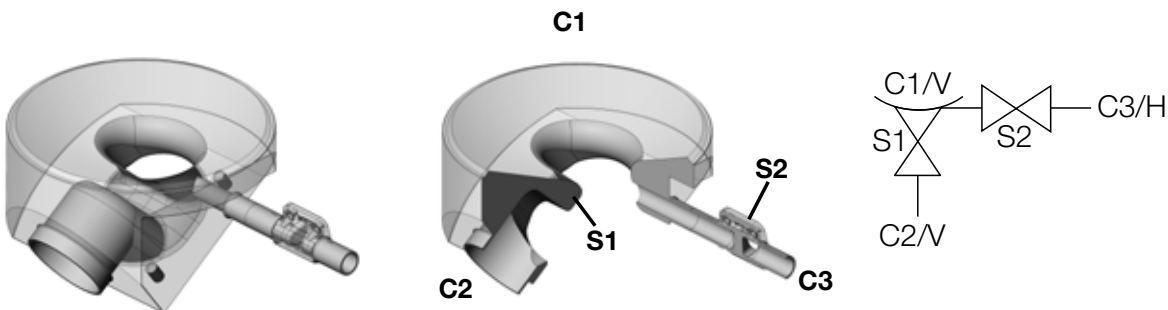
3 connections, 2 seats: 2 vertical, 1 horizontal

0244



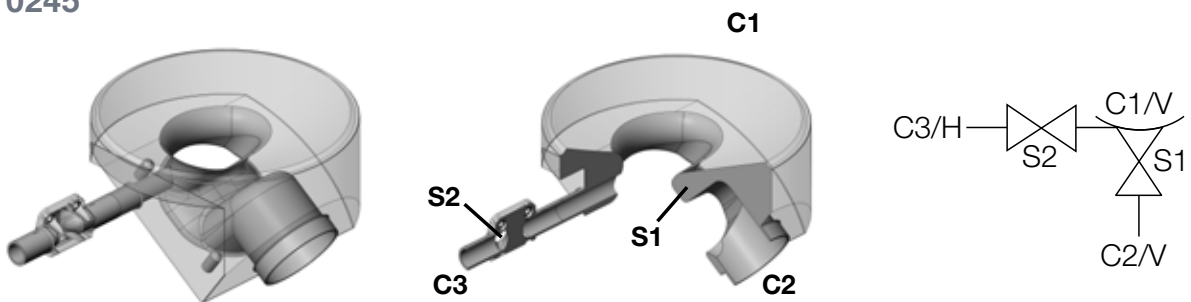
3 connections, 2 seats: 2 vertical, 1 horizontal

0248



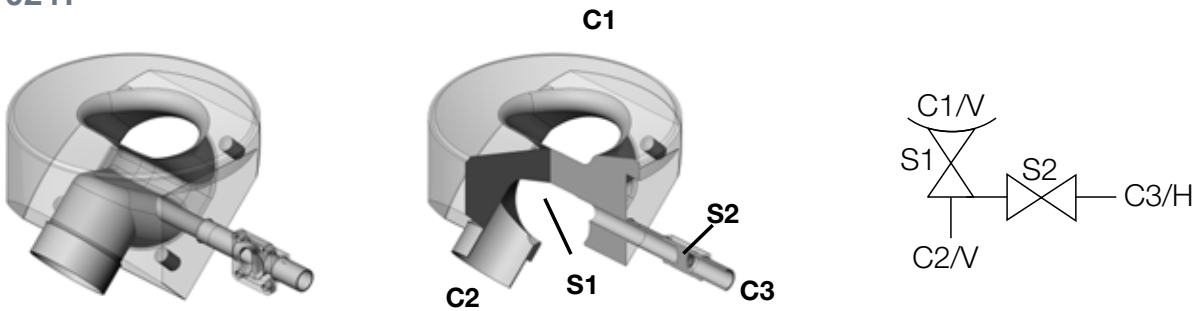
3 connections, 2 seats: 2 vertical, 1 horizontal

0245



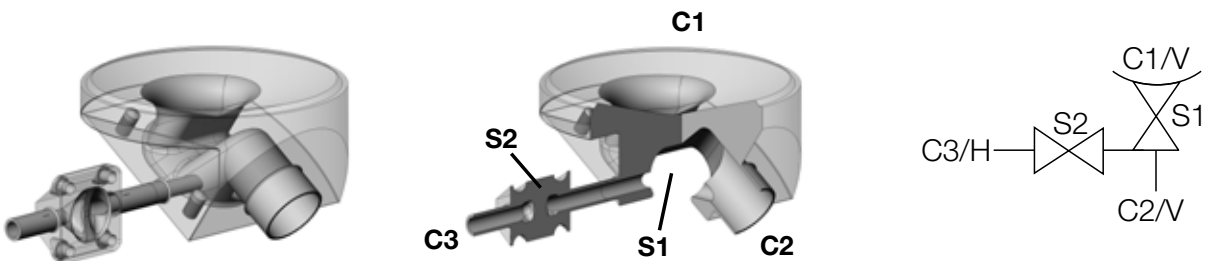
3 connections, 2 seats: 2 vertical, 1 horizontal

0241



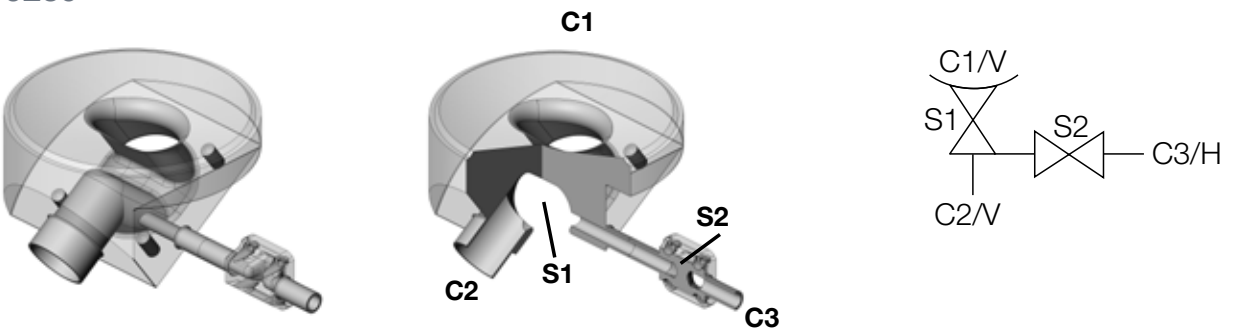
3 connections, 2 seats: 2 vertical, 1 horizontal

0242



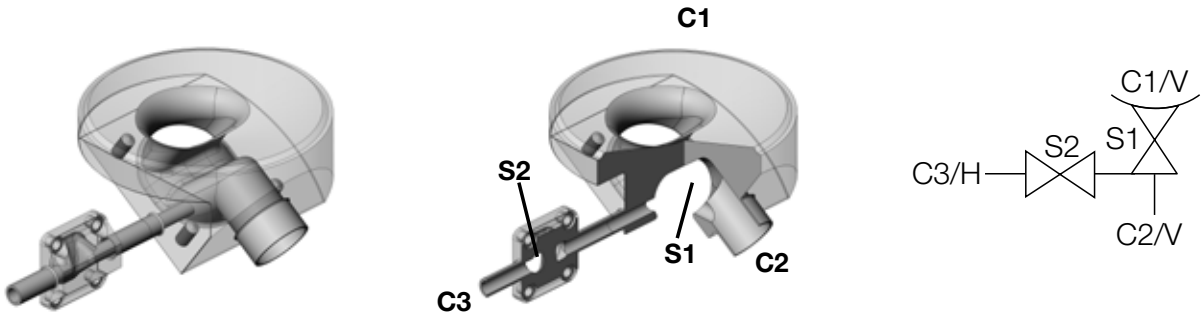
3 connections, 2 seats: 2 vertical, 1 horizontal

0239



3 connections, 2 seats: 2 vertical, 1 horizontal

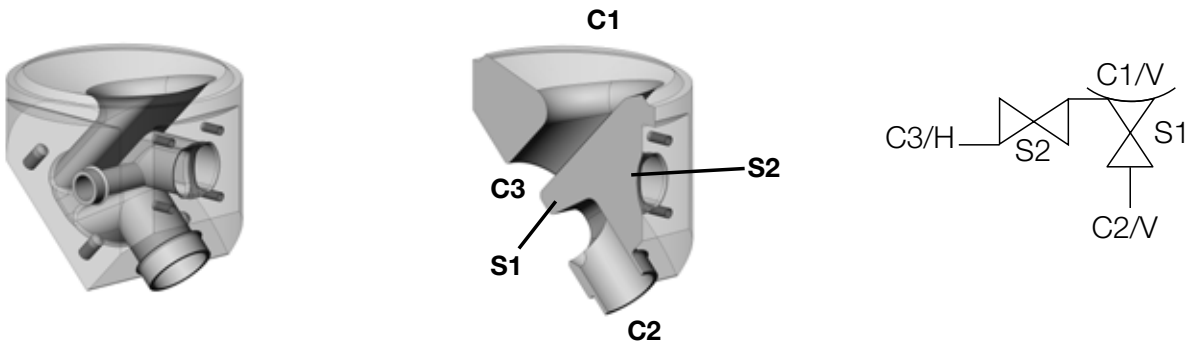
0240



3 connections, 2 seats: 2 vertical, 1 horizontal

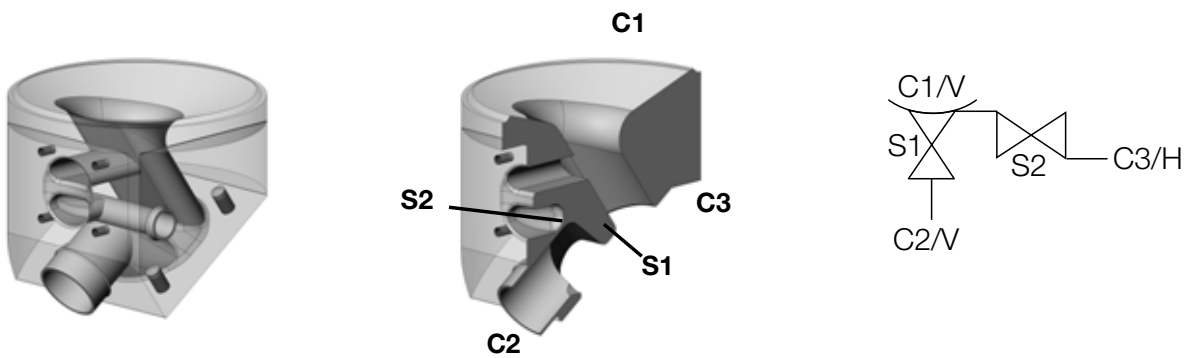
Tank bottom valve with integrated diaphragm valve

0252



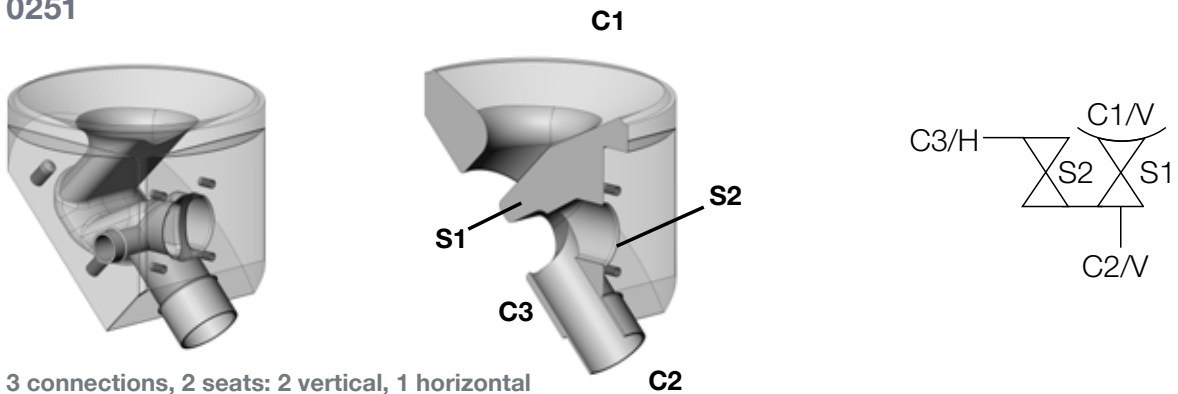
3 connections, 2 seats: 2 vertical, 1 horizontal

0229



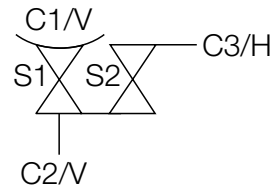
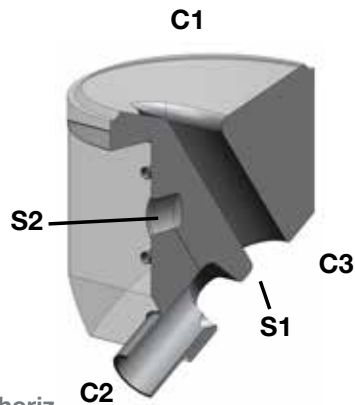
3 connections, 2 seats: 2 vertical, 1 horizontal

0251



3 connections, 2 seats: 2 vertical, 1 horizontal

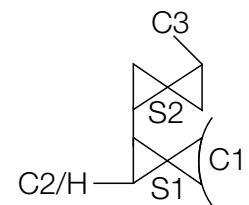
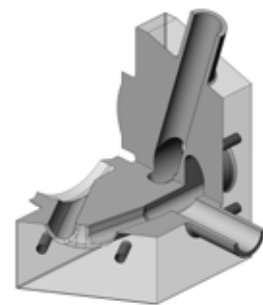
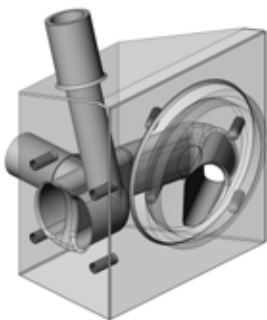
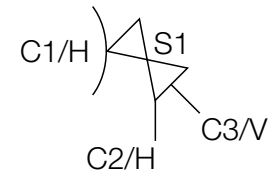
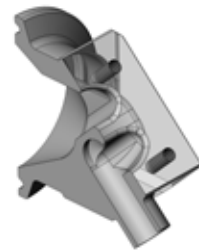
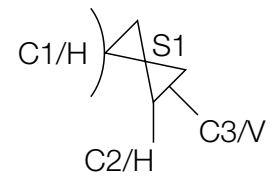
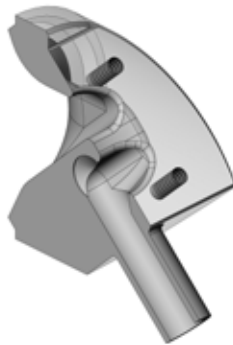
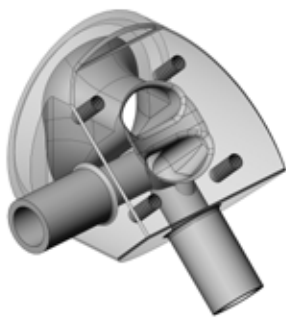
0206



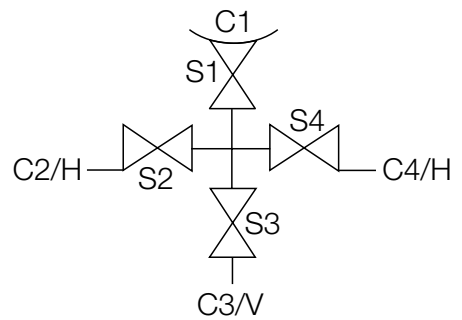
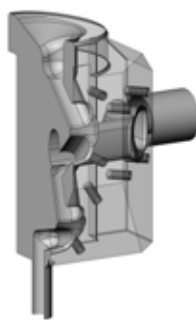
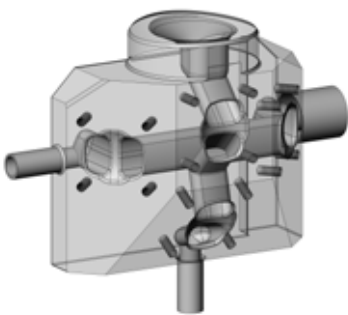
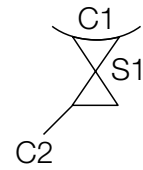
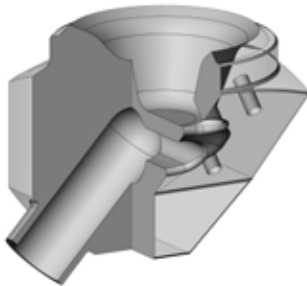
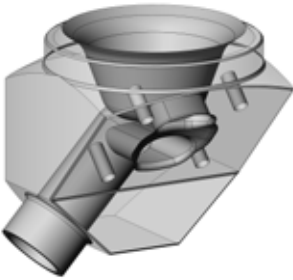
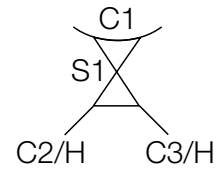
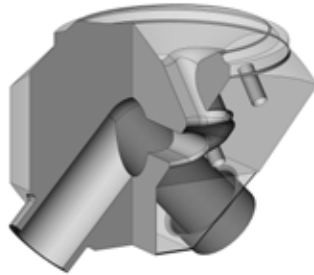
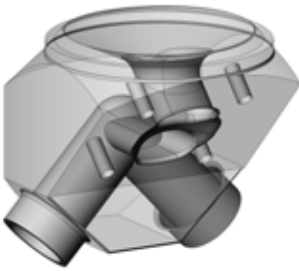
3 connections, 2 seats: 2 vertical, 1 horiz

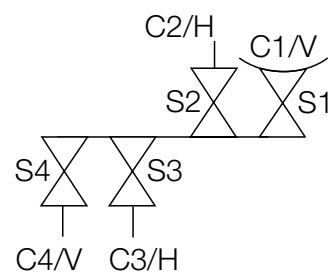
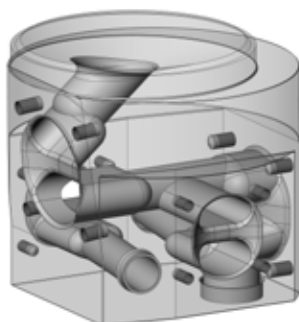
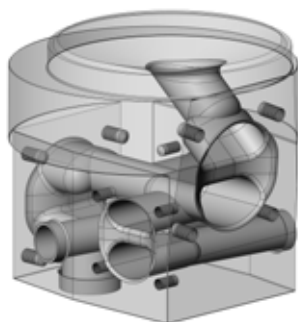
Examples of customer specific block solutions for tanks

Tank wall solutions

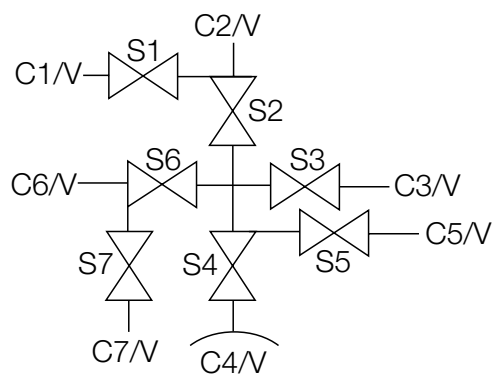
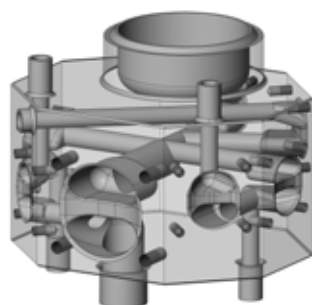
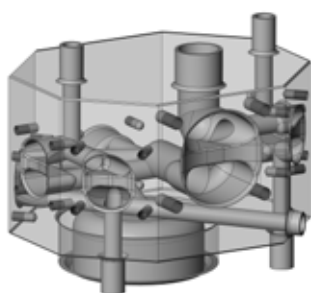


Tank bottom solutions



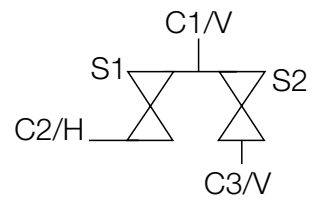


Tank top solutions

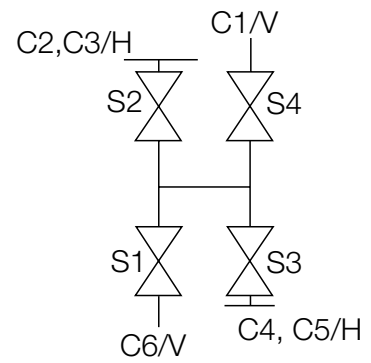
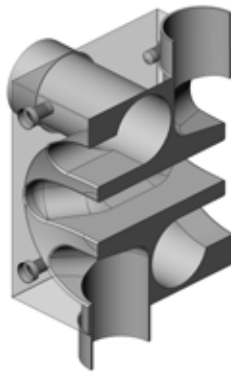
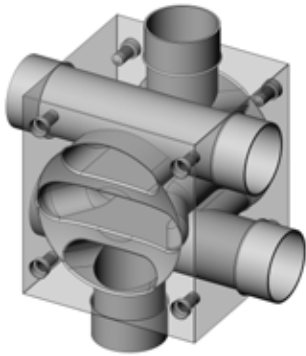


Specific solutions

Sampling system



Mix proof valve



Further information

Block valve data- and specification sheet



Type 2034



Actuators



Type 2103



Type 2031



Type 2063



Type 3323



Type 2036



Type 3233



Accessories for pneumatic actuators



Type 2XXX



Control heads for pneumatic actuators



Type 8685



Type 8686



Type 8690



Type 8691



Type 8692



Type 8693



Type 8694



Type 8695



Type 8696



Type 8697



Diaphragm brochure



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