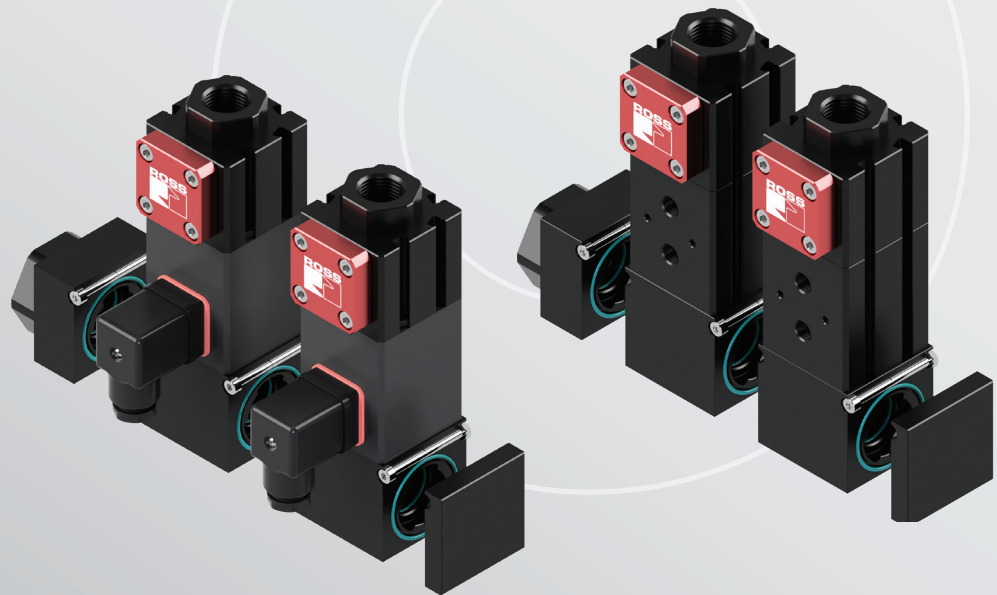


Modular Coaxial Valves

CV10



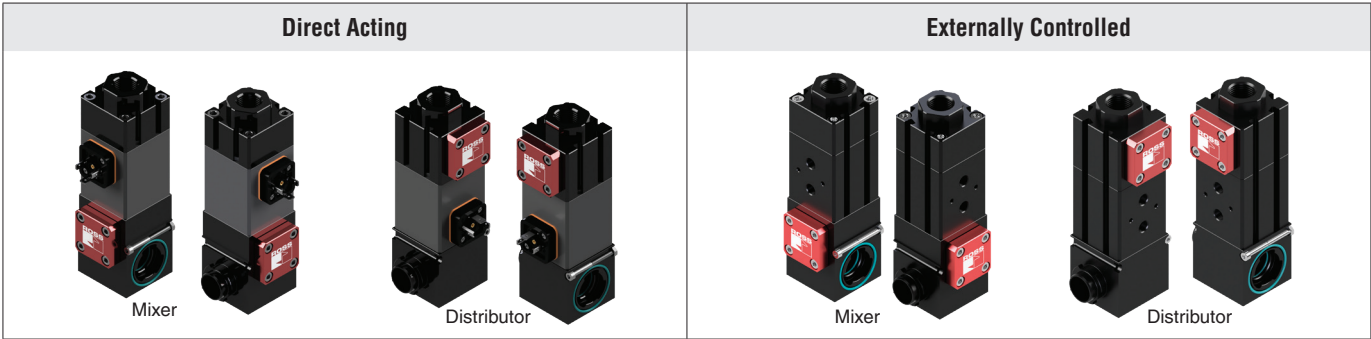
Series CV10 Modular Coaxial Valves

Product Overview

Function of the Modular Coaxial Valves

The module solution is a modification of the pipe-mounted valve. Replacing the valve inlet or outlet with a valve block (module) creates a flexible valve system. The individual modules seal each other, making the system very flexible.

- Faster installation than piping individual valves
- Unique bayonet quick connection of the modules – further time savings
- Accessories for media and pressure separation, various connection options, reducers for different valve nominal sizes and fastenings
- Integration of e.g. pressure sensors, pressure relief valves, flow sensors
- Distributor function for classic distribution via pressure input on the module to various consumers
- Mixer function for pressure input via the valve. This enables, among other things, the control of process gases or the mixing of different media.



Illustrative examples.

VALVES FEATURES

Media	liquid, highly viscous, contaminated, neutral gases
Design	DN10, DN15, DN25
Improved efficiency	up to 40 % higher flow rates and 4 times longer service life than conventional valves
Fast and precise control	ultra-fast switching for precise fluid control in critical applications
Customised design	enables versatile use and different media
Maintenance	single quick valve seat rotation for easy maintenance without removing the valve, reducing production downtime

	MODULAR COAXIAL VALVE - DN10, DN15, DN25		PAGE
	direct acting	externally controlled	
SPECIFICATION	●	●	3, 14
ORDER NUMBER	●	●	4-9, 15-20
VALVE COMPONENTS	●	●	10, 21
DIMENSIONS	●	●	11+12, 22+23
ACCESSORIES	●	●	13, 24-26
MODULE CONNECTORS	●	●	27-28

STANDARD SPECIFICATIONS, DIRECT ACTING



Mixer



Distributor

GENERAL	Sizes	DN10, DN15, DN25
	Construction design	mixer or distributor, coaxial control tube and rotating valve seat
	Function	2/2-way, normally closed NC or normally open NO
	Operating mode	direct acting
	Mounting position	any
	Port size	G 1 - G 1-1/2 and NPT 1 - NPT 1-1/2
	k_v - ϕ -Value	DN10 max. 3.7 m ³ /h, DN15 max. 8.4 m ³ /h, DN25 max. 21.9 m ³ /h,
VALVE BODY	Material	aluminium black anodized or stainless steel
CONSTRUCTION MATERIAL	Valve seat	PTFE, others on request
	Sealing material	FKM, on demand EPDM, NBR and others on available on request
	Materials in contact with media	aluminium black anodized; stainless steel on request
	Control tube	stainless steel
OPERATING CONDITIONS	Operating pressure*	0 - 16 bar / 0- 40 bar, higher pressure on request
	Back pressure**	max. 0 - 16 bar, higher back pressure on request
	Vacuum (special design)	< 1* 10 ⁻⁶ mbar*/s
	Ambient temperature	-10°C to +50°C, other temperatures on request
	Media temperature	-10°C to 100°C, other temperatures on request
MODULE CONNECTORS	left- and right-side connecting pieces (see accessories)	
	left- and right-side end-cover pieces (see accessories)	
	divider pieces (see accessories)	
	sensorblock for monitoring function (see accessories)	
	reducers on request	
ELECTRICAL PARAMETER	Voltage	24 VDC / 230 V 50-60 Hz (with external rectifier), special voltage on request
	Drive	DC solenoid housing steel, surface-coated. Reset: spring 1.4310
	Voltage tolerance	± 10% to VDE 0580, special design on request
	Insulation class (wire)	H (180°C)
	Duty cycle	100% ED
	E-Port	connector DIN EN 175301-803, Form A (connector see accessories), connection box IP 67 on request
	Enclosure rating	IP 65 with mounted connector, IP 67 / cable port on request
	Power consumption DN10	N-coil: 24 VDC 1 A; H-coil: 24 VDC 1.5 A; H-coil: 207 VDC (230 VAC) 0.175 A
	Power consumption DN15	N-coil: 24 VDC 1.7 A; H-coil: 24 VDC 2.1 A; H-coil: 207 VDC (230 VAC) 0.19 A
	Power consumption DN25	N-coil: 24 VDC 2.6 A; H-coil: 24 VDC 3.5 A; N-coil: 207 VDC (230 VAC) 0.3 A
MOUNTING	mounting brackets (see accessories) or mounting hole	
WEIGHT	DN10 - 1.5 kg, DN15 - 3.7 kg, DN25 - 7.7 kg	

*Operating pressure 2/2-way P → A

**Back pressure 2/2-way A → P

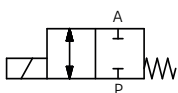
Ordering Chart - direct acting

DISTRIBUTOR – DN 10

2/2-WAY VALVE – Flow direction: P → A (Back pressure: see standard specifications)

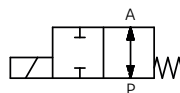
Symbol:

normally closed (NC)



Symbol:

normally open (NO)



PIPE SIZE	k _v -VALUE (m³/h)	NOMINAL PRESSURE (bar)	ORDER NUMBER	
			24 VDC	230 VAC*

2/2-Way valve - direct acting, normally closed (NC)

G 1/4	2.1	0 - 16	CV10106002	CV10106018
G 3/8	3.2		CV10106003	CV10106019
G 1/2	3.7		CV10106004	CV10106020
G 3/4	3.7		CV10106005	CV10106021
NPT 1/4	2.1		CV10106006	CV10106022
NPT 3/8	3.2		CV10106007	CV10106023
NPT 1/2	3.7		CV10106008	CV10106024
NPT 3/4	3.7		CV10106009	CV10106025
G 1/4	2.1	0 - 40	CV10106010	CV10106026
G 3/8	3.2		CV10106011	CV10106027
G 1/2	3.7		CV10106012	CV10106028
G 3/4	3.7		CV10106013	CV10106029
NPT 1/4	2.1		CV10106014	CV10106030
NPT 3/8	3.2		CV10106015	CV10106031
NPT 1/2	3.7		CV10106016	CV10106032
NPT 3/4	3.7		CV10106017	CV10106033

2/2-Way valve - direct acting, normally open (NO)

G 1/4	2.1	0 - 16	CV10106034	CV10106050
G 3/8	3.2		CV10106035	CV10106051
G 1/2	3.7		CV10106036	CV10106052
G 3/4	3.7		CV10106037	CV10106053
NPT 1/4	2.1		CV10106038	CV10106054
NPT 3/8	3.2		CV10106039	CV10106055
NPT 1/2	3.7		CV10106040	CV10106056
NPT 3/4	3.7		CV10106041	CV10106057
G 1/4	2.1	0 - 40	CV10106042	CV10106058
G 3/8	3.2		CV10106043	CV10106059
G 1/2	3.7		CV10106044	CV10106060
G 3/4	3.7		CV10106045	CV10106061
NPT 1/4	2.1		CV10106046	CV10106062
NPT 3/8	3.2		CV10106047	CV10106063
NPT 1/2	3.7		CV10106048	CV10106064
NPT 3/4	3.7		CV10106049	CV10106065

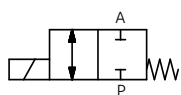
* Operation with rectifier 207 VDC solenoid.

Further versions, on request.

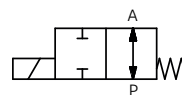
MIXER – DN 10

2/2-WAY VALVE – Flow direction: P → A (Back pressure: see standard specifications)

Symbol:
normally closed (NC)



Symbol:
normally open (NO)



PIPE SIZE	k _v -VALUE (m³/h)	NOMINAL PRESSURE (bar)	ORDER NUMBER	
			24 VDC	230 VAC*

2/2-Way valve - direct acting, normally closed (NC)

G 1/4	2.1	0 - 16	CV10107002	CV10107018
G 3/8	3.2		CV10107003	CV10107019
G 1/2	3.7		CV10107004	CV10107020
G 3/4	3.7		CV10107005	CV10107021
NPT 1/4	2.1		CV10107006	CV10107022
NPT 3/8	3.2		CV10107007	CV10107023
NPT 1/2	3.7		CV10107008	CV10107024
NPT 3/4	3.7		CV10107009	CV10107025
G 1/4	2.1	0 - 40	CV10107010	CV10107026
G 3/8	3.2		CV10107011	CV10107027
G 1/2	3.7		CV10107012	CV10107028
G 3/4	3.7		CV10107013	CV10107029
NPT 1/4	2.1		CV10107014	CV10107030
NPT 3/8	3.2		CV10107015	CV10107031
NPT 1/2	3.7		CV10107016	CV10107032
NPT 3/4	3.7		CV10107017	CV10107033

2/2-Way valve - direct acting, normally open (NO)

G 1/4	2.1	0 - 16	CV10107034	CV10107050
G 3/8	3.2		CV10107035	CV10107051
G 1/2	3.7		CV10107036	CV10107052
G 3/4	3.7		CV10107037	CV10107053
NPT 1/4	2.1		CV10107038	CV10107054
NPT 3/8	3.2		CV10107039	CV10107055
NPT 1/2	3.7		CV10107040	CV10107056
NPT 3/4	3.7		CV10107041	CV10107057
G 1/4	2.1	0 - 40	CV10107042	CV10107058
G 3/8	3.2		CV10107043	CV10107059
G 1/2	3.7		CV10107044	CV10107060
G 3/4	3.7		CV10107045	CV10107061
NPT 1/4	2.1		CV10107046	CV10107062
NPT 3/8	3.2		CV10107047	CV10107063
NPT 1/2	3.7		CV10107048	CV10107064
NPT 3/4	3.7		CV10107049	CV10107065

* Operation with rectifier 207 VDC solenoid.

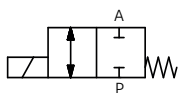
Further versions, on request.

Ordering Chart - direct acting

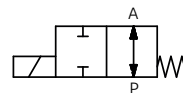
DISTRIBUTOR – DN 15

2/2-WAY VALVE – Flow direction: P → A (Back pressure: see standard specifications)

Symbol:
normally closed (NC)



Symbol:
normally open (NO)



PIPE SIZE	k _v -VALUE (m ³ /h)	NOMINAL PRESSURE (bar)	ORDER NUMBER	
			24 VDC	230 VAC*

2/2-Way valve - direct acting, normally closed (NC)

G 3/8	7.0	0 - 16	CV10156002	CV10156018
G 1/2	8.1		CV10156003	CV10156019
G 3/4	8.4		CV10156004	CV10156020
G 1	8.4		CV10156005	CV10156021
NPT 3/8	7.0		CV10156006	CV10156022
NPT 1/2	8.1		CV10156007	CV10156023
NPT 3/4	8.4		CV10156008	CV10156024
NPT 1	8.4		CV10156009	CV10156025
G 3/8	7.0	0 - 40	CV10156010	CV10156026
G 1/2	8.1		CV10156011	CV10156027
G 3/4	8.4		CV10156012	CV10156028
G 1	8.4		CV10156013	CV10156029
NPT 3/8	7.0		CV10156014	CV10156030
NPT 1/2	8.1		CV10156015	CV10156031
NPT 3/4	8.4		CV10156016	CV10156032
NPT 1	8.4		CV10156017	CV10156033

2/2-Way valve - direct acting, normally open (NO)

G 3/8	7.0	0 - 16	CV10156034	CV10156050
G 1/2	8.1		CV10156035	CV10156051
G 3/4	8.4		CV10156036	CV10156052
G 1	8.4		CV10156037	CV10156053
NPT 3/8	7.0		CV10156038	CV10156054
NPT 1/2	8.1		CV10156039	CV10156055
NPT 3/4	8.4		CV10156040	CV10156056
NPT 1	8.4		CV10156041	CV10156057
G 3/8	7.0	0 - 40	CV10156042	CV10156058
G 1/2	8.1		CV10156043	CV10156059
G 3/4	8.4		CV10156044	CV10156060
G 1	8.4		CV10156045	CV10156061
NPT 3/8	7.0		CV10156046	CV10156062
NPT 1/2	8.1		CV10156047	CV10156063
NPT 3/4	8.4		CV10156048	CV10156064
NPT 1	8.4		CV10156049	CV10156065

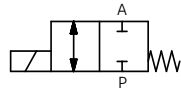
* Operation with rectifier 207 VDC solenoid.

Further versions, on request.

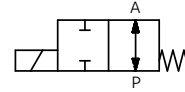
MIXER – DN 15

2/2-WAY VALVE – Flow direction: P → A (Back pressure: see standard specifications)

Symbol:
normally closed (NC)



Symbol:
normally open (NO)



PIPE SIZE	k_v -VALUE (m ³ /h)	NOMINAL PRESSURE (bar)	ORDER NUMBER	
			24 VDC	230 VAC*

2/2-Way valve - direct acting, normally closed (NC)

G 3/8	7.0	0 - 16	CV10157002	CV10157018
G 1/2	8.1		CV10157003	CV10157019
G 3/4	8.4		CV10157004	CV10157020
G 1	8.4		CV10157005	CV10157021
NPT 3/8	7.0		CV10157006	CV10157022
NPT 1/2	8.1		CV10157007	CV10157023
NPT 3/4	8.4		CV10157008	CV10157024
NPT 1	8.4		CV10157009	CV10157025
G 3/8	7.0	0 - 40	CV10157010	CV10157026
G 1/2	8.1		CV10157011	CV10157027
G 3/4	8.4		CV10157012	CV10157028
G 1	8.4		CV10157013	CV10157029
NPT 3/8	7.0		CV10157014	CV10157030
NPT 1/2	8.1		CV10157015	CV10157031
NPT 3/4	8.4		CV10157016	CV10157032
NPT 1	8.4		CV10157017	CV10157033

2/2-Way valve - direct acting, normally open (NO)

G 3/8	7.0	0 - 16	CV10157034	CV10157050
G 1/2	8.1		CV10157035	CV10157051
G 3/4	8.4		CV10157036	CV10157052
G 1	8.4		CV10157037	CV10157053
NPT 3/8	7.0		CV10157038	CV10157054
NPT 1/2	8.1		CV10157039	CV10157055
NPT 3/4	8.4		CV10157040	CV10157056
NPT 1	8.4		CV10157041	CV10157057
G 3/8	7.0	0 - 40	CV10157042	CV10157058
G 1/2	8.1		CV10157043	CV10157059
G 3/4	8.4		CV10157044	CV10157060
G 1	8.4		CV10157045	CV10157061
NPT 3/8	7.0		CV10157046	CV10157062
NPT 1/2	8.1		CV10157047	CV10157063
NPT 3/4	8.4		CV10157048	CV10157064
NPT 1	8.4		CV10157049	CV10157065

* Operation with rectifier 207 VDC solenoid.

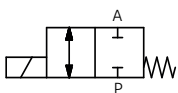
Further versions, on request.

Ordering Chart - direct acting

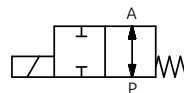
DISTRIBUTOR – DN 25

2/2-WAY VALVE – Flow direction: P → A (Back pressure: see standard specifications)

Symbol:
normally closed (NC)



Symbol:
normally open (NO)



PIPE SIZE	k_v -VALUE (m³/h)	NOMINAL PRESSURE (bar)	ORDER NUMBER	
			24 VDC	230 VAC*

2/2-Way valve - direct acting, normally closed (NC)

G 3/4	12.2	0 - 16	CV10256002	CV10256018
G 1	16.5		CV10256003	CV10256019
G 1-1/4	19.7		CV10256004	CV10256020
G 1-1/2	21.9		CV10256005	CV10256021
NPT 3/4	12.2		CV10256006	CV10256022
NPT 1	16.5		CV10256007	CV10256023
NPT 1-1/4	19.7		CV10256008	CV10256024
NPT 1-1/2	21.9		CV10256009	CV10256025
G 3/4	12.2	0 - 40	CV10256010	CV10256026
G 1	16.5		CV10256011	CV10256027
G 1-1/4	19.7		CV10256012	CV10256028
G 1-1/2	21.9		CV10256013	CV10256029
NPT 3/4	12.2		CV10256014	CV10256030
NPT 1	16.5		CV10256015	CV10256031
NPT 1-1/4	19.7		CV10256016	CV10256032
NPT 1-1/2	21.9		CV10256017	CV10256033

2/2-Way valve - direct acting, normally open (NO)

G 3/4	12.2	0 - 16	CV10256034	CV10256050
G 1	16.5		CV10256035	CV10256051
G 1-1/4	19.7		CV10256036	CV10256052
G 1-1/2	21.9		CV10256037	CV10256053
NPT 3/4	12.2		CV10256038	CV10256054
NPT 1	16.5		CV10256039	CV10256055
NPT 1-1/4	19.7		CV10256040	CV10256056
NPT 1-1/2	21.9		CV10256041	CV10256057
G 3/4	12.2	0 - 40	CV10256042	CV10256058
G 1	16.5		CV10256043	CV10256059
G 1-1/4	19.7		CV10256044	CV10256060
G 1-1/2	21.9		CV10256045	CV10256061
NPT 3/4	12.2		CV10256046	CV10256062
NPT 1	16.5		CV10256047	CV10256063
NPT 1-1/4	19.7		CV10256048	CV10256064
NPT 1-1/2	21.9		CV10256049	CV10256065

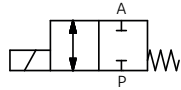
* Operation with rectifier 207 VDC solenoid.

Further versions, on request.

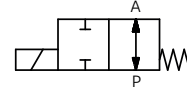
MIXER – DN 25

2/2-WAY VALVE – Flow direction: P → A (Back pressure: see standard specifications)

Symbol:
normally closed (NC)



Symbol:
normally open (NO)



PIPE SIZE	k _v -VALUE (m ³ /h)	NOMINAL PRESSURE (bar)	ORDER NUMBER	
			24 VDC	230 VAC*

2/2-Way valve - direct acting, normally closed (NC)

G 3/4	12.2	0 - 16	CV10257002	CV10257018
G 1	16.5		CV10257003	CV10257019
G 1-1/4	19.7		CV10257004	CV10257020
G 1-1/2	21.9		CV10257005	CV10257021
NPT 3/4	12.2		CV10257006	CV10257022
NPT 1	16.5		CV10257007	CV10257023
NPT 1-1/4	19.7		CV10257008	CV10257024
NPT 1-1/2	21.9		CV10257009	CV10257025
G 3/4	12.2	0 - 40	CV10257010	CV10257026
G 1	16.5		CV10257011	CV10257027
G 1-1/4	19.7		CV10257012	CV10257028
G 1-1/2	21.9		CV10257013	CV10257029
NPT 3/4	12.2		CV10257014	CV10257030
NPT 1	16.5		CV10257015	CV10257031
NPT 1-1/4	19.7		CV10257016	CV10257032
NPT 1-1/2	21.9		CV10257017	CV10257033

2/2-Way valve - direct acting, normally open (NO)

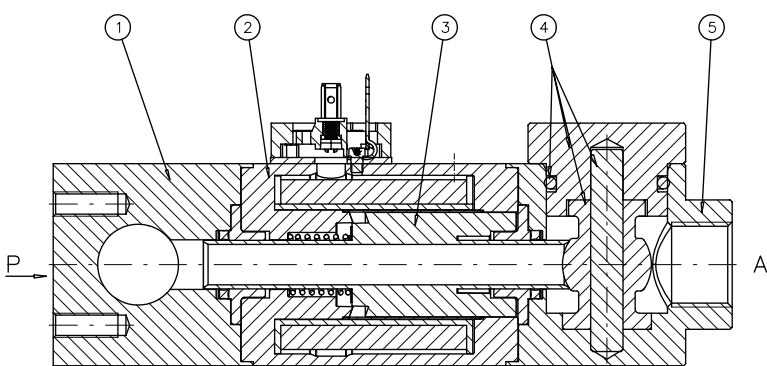
G 3/4	12.2	0 - 16	CV10257034	CV10257050
G 1	16.5		CV10257035	CV10257051
G 1-1/4	19.7		CV10257036	CV10257052
G 1-1/2	21.9		CV10257037	CV10257053
NPT 3/4	12.2		CV10257038	CV10257054
NPT 1	16.5		CV10257039	CV10257055
NPT 1-1/4	19.7		CV10257040	CV10257056
NPT 1-1/2	21.9		CV10257041	CV10257057
G 3/4	12.2	0 - 40	CV10257042	CV10257058
G 1	16.5		CV10257043	CV10257059
G 1-1/4	19.7		CV10257044	CV10257060
G 1-1/2	21.9		CV10257045	CV10257061
NPT 3/4	12.2		CV10257046	CV10257062
NPT 1	16.5		CV10257047	CV10257063
NPT 1-1/4	19.7		CV10257048	CV10257064
NPT 1-1/2	21.9		CV10257049	CV10257065

* Operation with rectifier 207 VDC solenoid.

Further versions, on request.

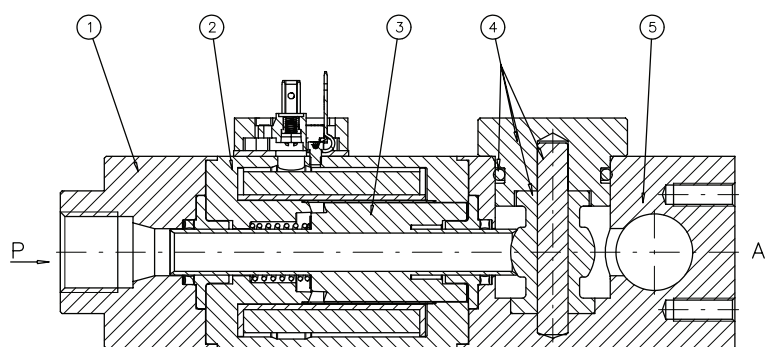
Valve Components - direct acting

DISTRIBUTOR



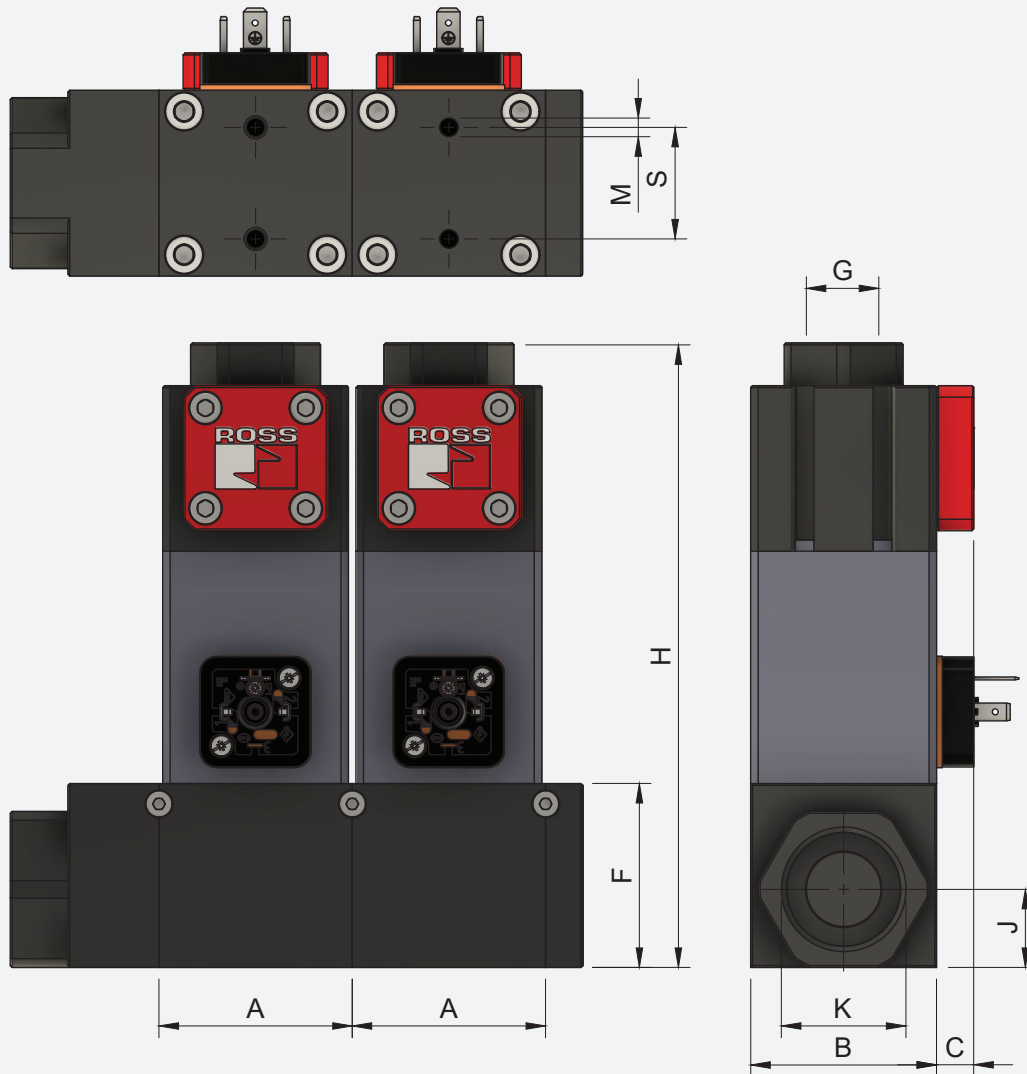
POSITION	DESCRIPTION	QUANTITY
1	Distributor block	1
2	Solenoid coil	1
3	Anchor with control tube	1
4	Seat kit complet	1
5	Connecting pieces output	1

MIXER



POSITION	DESCRIPTION	QUANTITY
1	Connecting pieces input	1
2	Solenoid coil	1
3	Anchor with control tube	1
4	Seat kit complet	1
5	Mixer block	1

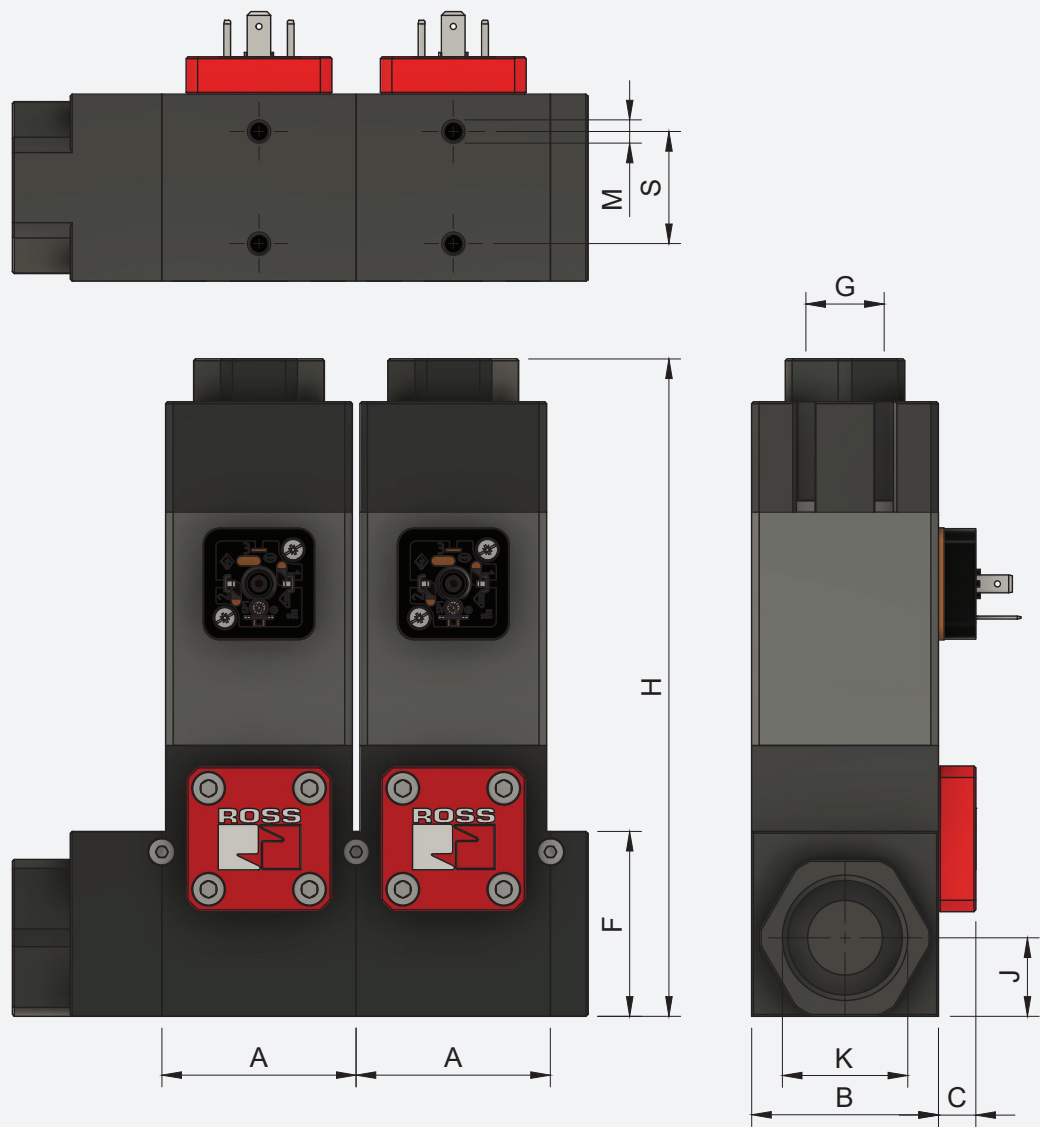
DISTRIBUTOR



	DIMENSIONS (mm)									
	A	B	C	F	G / NPT	H	J	K	M	S
DN 10	52	50	10	49.5	1/4, 3/8, 1/2, 3/4	168	21	G 1; NPT 1	M6	30
DN 15	72	70	10	69.8	3/8, 1/2, 3/4, 1	207	28	G 1-1/4; NPT 1-1/4	M6	38
DN 25	92	90	10	82	3/4, 1, 1-1/4, 1-1/2	275	36	G 1-1/2; NPT 1-1/2	M8	45

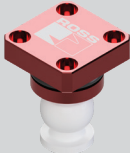
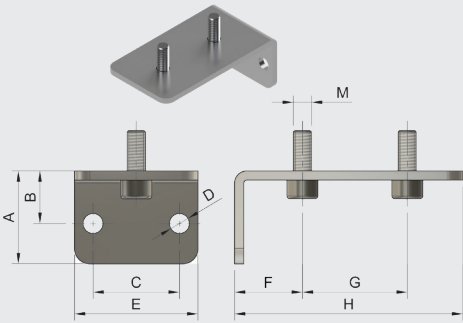
Dimensions - direct acting

MIXER



	DIMENSIONS (mm)									
	A	B	C	F	G / NPT	H	J	K	M	S
DN 10	52	50	10	72.5	1/4, 3/8, 1/2, 3/4	176	21	G 1, NPT 1	M6	30
DN 15	72	70	10	84.9	3/8, 1/2, 3/4, 1	207	28	G 1-1/4; NPT 1-1/4	M6	38
DN 25	92	90	10	119	3/4, 1, 1-1/4, 1-1/2	275	36	G 1-1/2; NPT 1-1/2	M8	45

2/2-WAY MODULAR COAXIAL VALVE

	DESCRIPTION	ORDER NUMBER (separate Position)							
Connector to DIN EN 175301-803, Form A									
	Connector 24 VDC without wiring	937K87							
	Connector 230 VAC with rectifier and varistor for operation 207 VDC	RESK4610.4							
	Connector 24 VDC, M12x1, 3-pole with LED Adapter	RESK4610.1							
	Connector 24 VDC with LED	936K87-A							
	CONNECTOR 24 VDC POWER REDUCTION WITH LED	RESK4610.3							
	Connector 230 VAC with rectifier and varistor, and LED for operation 207 VDC	RESK4610.5							
Valve Seat with Carrier*									
	Valve seat repair kit DN 10 FKM, aluminium anodized	DICH-CV10-DN10-FA							
	Valve seat repair kit DN 15 FKM, aluminium anodized	DICH-CV10-DN15-FA							
	Valve seat repair kit DN 25 FKM, aluminium anodized	DICH-CV10-DN25-FA							
Limit switch (mounted)									
	Single query Multiple query	on request (ATTENTION: Limit switch only available mounted, no loose delivery)							
Mounting bracket set (module)									
	Mounting bracket set consisting of one bracket and two mounting screws. Material of the mounting bracket: stainless steel 1.4301	HTW-CV10-DN10-MODUL HTW-CV10-DN15-MODUL HTW-CV10-DN25-MODUL							
	Mounting bracket - Dimensions - mm								
	A	B	C	D	E	F	G	H	M
DN10	20.5	12	23	6.4	35	13.5	30	53.5	M6
DN15	30	17	28	6.4	40	22	34	74	M6
DN25	30	18	34	8.4	50	26.5	45	94	M8

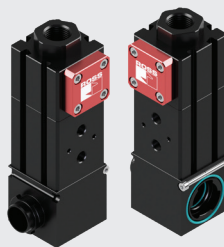
*If you have any questions, please contact ROSS Service.

Specifications - externally controlled

STANDARD SPECIFICATIONS, EXTERNALLY CONTROLLED



Mixer



Distributor

GENERAL	Sizes	DN10, DN15, DN25
	Construction design	mixer and distributor, coaxial control tube and rotating valve seat
	Functions	2/2-way, normally closed NC, normally open NO
	Operating mode	externally controlled, alternatively with flange-mounted pilot valve (see accessories)
	Mounting position	any
	Port size	G 1 - G 1-1/2; NPT 1 - NPT 1-1/2
	k_v -ø-Value	DN10 - max. 3.7 m³/h, DN15 - max. 8.4 m³/h, DN25: max. 21.9 m³/h
VALVE BODY	Material	aluminium black anodized or stainless steel
CONSTRUCTION MATERIAL	Valve seat	PTFE, others on request
	Sealing material	FKM, on demand EPDM, NBR and others on request
	Materials in contact with media	aluminium black anodized; stainless steel on request
	Control tube	stainless steel
OPERATING CONDITIONS	Operating pressure*	0 - 16 bar / 0- 40 bar / 0-64 bar / 0-100 bar, higher pressure on request
	Back pressure**	max. 0 - 16 bar, higher back pressure on request
	Vacuum (special design)	< 1* 10 ⁻⁶ mbar*/s
	Ambient temperature	-10°C to +80°C, other temperatures on request
	Media temperature	-10°C to 130°C, other temperatures on request
MODULE CONNECTORS	left- and right-side connecting pieces (see accessories)	
	left- and right-side end-cover pieces (see accessories)	
	divider pieces (see accessories)	
	sensorblock for monitoring function (see accessories)	
	reducers on request	
PNEUMATIC DRIVE	Control	double-acting with spring return (spring made of 1.4310), preferably controlled via 5/2-way pilot valve. Alternative single-acting controlled with 3/2-way pilot valve.
	Operating pressure	3 to 10 bar, other pressure on request
	Air consumption	7 cm³ - 10 cm³/stroke
	Cycle time	adjustable via 20-3000 ms exhaust throttle, cushioning piston on request
	Flow media	filtered air, neutral gases, other media on request
	Control connections cylinder	G1/8 (port size 2 + 4), NPT 1/8 (port size 2 + 4) on request
	Control connections for pilot valve	5/2-way pilot valve with adapter plate (see accessories), others on request
MOUNTING	mounting bracket (see accessories) or mounting hole	
WEIGHT	DN10 - 0.9 kg, DN15 - 2.2 kg, DN25 - 4.5 kg	

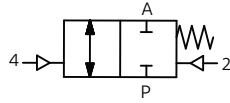
*Operating pressure 2/2-way P → A

**Back pressure 2/2-way A → P

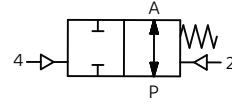
DISTRIBUTOR – DN 10

2/2-WAY VALVE – Flow direction: P → A (Back pressure: see standard specifications)

Symbol:
normally closed (NC)



Symbol:
normally open (NO)



PIPE SIZE	k _v -VALUE (m³/h)	NOMINAL PRESSURE (bar)	ORDER NUMBER	NOMINAL PRESSURE (bar)	ORDER NUMBER
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2/2-Way valve, externally controlled, normally closed (NC)

G 1/4	2.1	0 - 16	CV10108002	0 - 64	CV10108018
G 3/8	3.2		CV10108003		CV10108019
G 1/2	3.7		CV10108004		CV10108020
G 3/4	3.7		CV10108005		CV10108021
NPT 1/4	2.1		CV10108006		CV10108022
NPT 3/8	3.2		CV10108007		CV10108023
NPT 1/2	3.7		CV10108008		CV10108024
NPT 3/4	3.7		CV10108009		CV10108025
G 1/4	2.1	0 - 40	CV10108010	0 - 100	CV10108026
G 3/8	3.2		CV10108011		CV10108027
G 1/2	3.7		CV10108012		CV10108028
G 3/4	3.7		CV10108013		CV10108029
NPT 1/4	2.1		CV10108014		CV10108030
NPT 3/8	3.2		CV10108015		CV10108031
NPT 1/2	3.7		CV10108016		CV10108032
NPT 3/4	3.7		CV10108017		CV10108033

2/2-Way valve, externally controlled, normally closed (NO)

G 1/4	2.1	0 - 16	CV10108034	0 - 64	CV10108050
G 3/8	3.2		CV10108035		CV10108051
G 1/2	3.7		CV10108036		CV10108052
G 3/4	3.7		CV10108037		CV10108053
NPT 1/4	2.1		CV10108038		CV10108054
NPT 3/8	3.2		CV10108039		CV10108055
NPT 1/2	3.7		CV10108040		CV10108056
NPT 3/4	3.7		CV10108041		CV10108057
G 1/4	2.1	0 - 40	CV10108042	0 - 100	CV10108058
G 3/8	3.2		CV10108043		CV10108059
G 1/2	3.7		CV10108044		CV10108060
G 3/4	3.7		CV10108045		CV10108061
NPT 1/4	2.1		CV10108046		CV10108062
NPT 3/8	3.2		CV10108047		CV10108063
NPT 1/2	3.7		CV10108048		CV10108064
NPT 3/4	3.7		CV10108049		CV10108065

Further versions, on request.

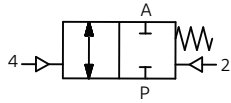
Odering Chart - externally controlled

MIXER – DN 10

2/2-WAY VALVE – Flow direction: P → A (Back pressure: see standard specifications)

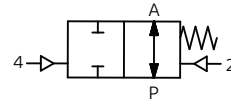
Symbol:

normally closed (NC)



Symbol:

normally open (NO)



PIPE SIZE	K_v -VALUE (m³/h)	NOMINAL PRESSURE (bar)	ORDER NUMBER	NOMINAL PRESSURE (bar)	ORDER NUMBER
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2/2-Way valve, externally controlled, normally closed (NC)

G 1/4	2.1	0 - 16	CV10109002	0 - 64	CV10109018
G 3/8	3.2		CV10109003		CV10109019
G 1/2	3.7		CV10109004		CV10109020
G 3/4	3.7		CV10109005		CV10109021
NPT 1/4	2.1		CV10109006		CV10109022
NPT 3/8	3.2		CV10109007		CV10109023
NPT 1/2	3.7		CV10109008		CV10109024
NPT 3/4	3.7		CV10109009		CV10109025
G 1/4	2.1	0 - 40	CV10109010	0 - 100	CV10109026
G 3/8	3.2		CV10109011		CV10109027
G 1/2	3.7		CV10109012		CV10109028
G 3/4	3.7		CV10109013		CV10109029
NPT 1/4	2.1		CV10109014		CV10109030
NPT 3/8	3.2		CV10109015		CV10109031
NPT 1/2	3.7		CV10109016		CV10109032
NPT 3/4	3.7		CV10109017		CV10109033

2/2-Way valve, externally controlled, normally open (NO)

G 1/4	2.1	0 - 16	CV10109034	0 - 64	CV10109050
G 3/8	3.2		CV10109035		CV10109051
G 1/2	3.7		CV10109036		CV10109052
G 3/4	3.7		CV10109037		CV10109053
NPT 1/4	2.1		CV10109038		CV10109054
NPT 3/8	3.2		CV10109039		CV10109055
NPT 1/2	3.7		CV10109040		CV10109056
NPT 3/4	3.7		CV10109041		CV10109057
G 1/4	2.1	0 - 40	CV10109042	0 - 100	CV10109058
G 3/8	3.2		CV10109043		CV10109059
G 1/2	3.7		CV10109044		CV10109060
G 3/4	3.7		CV10109045		CV10109061
NPT 1/4	2.1		CV10109046		CV10109062
NPT 3/8	3.2		CV10109047		CV10109063
NPT 1/2	3.7		CV10109048		CV10109064
NPT 3/4	3.7		CV10109049		CV10109065

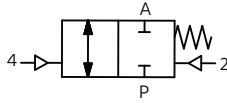
Further versions, on request.

DISTRIBUTOR – DN 15

2/2-WAY VALVE – Flow direction: P → A (Back pressure: see standard specifications)

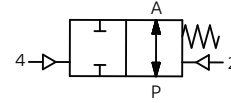
Symbol:

normally closed (NC)



Symbol:

normally open (NO)



PIPE SIZE	k_v -VALUE (m³/h)	NOMINAL PRESSURE (bar)	ORDER NUMBER	NOMINAL PRESSURE (bar)	ORDER NUMBER
2/2-Way-valve - externally controlled, normally closed (NC)					
G 3/8	7.0	0 - 16	CV10158002	0 - 64	CV10158018
G 1/2	8.1		CV10158003		CV10158019
G 3/4	8.4		CV10158004		CV10158020
G 1	8.4		CV10158005		CV10158021
NPT 3/8	7.0		CV10158006		CV10158022
NPT 1/2	8.1		CV10158007		CV10158023
NPT 3/4	8.4		CV10158008		CV10158024
NPT 1	8.4		CV10158009		CV10158025
G 3/8	7.0	0 - 40	CV10158010	0 - 100	CV10158026
G 1/2	8.1		CV10158011		CV10158027
G 3/4	8.4		CV10158012		CV10158028
G 1	8.4		CV10158013		CV10158029
NPT 3/8	7.0		CV10158014		CV10158030
NPT 1/2	8.1		CV10158015		CV10158031
NPT 3/4	8.4		CV10158016		CV10158032
NPT 1	8.4		CV10158017		CV10158033

2/2-Way-valve - externally controlled, normally open (NO)

G 3/8	7.0	0 - 16	CV10158034	0 - 64	CV10158050
G 1/2	8.1		CV10158035		CV10158051
G 3/4	8.4		CV10158036		CV10158052
G 1	8.4		CV10158037		CV10158053
NPT 3/8	7.0		CV10158038		CV10158054
NPT 1/2	8.1		CV10158039		CV10158055
NPT 3/4	8.4		CV10158040		CV10158056
NPT 1	8.4		CV10158041		CV10158057
G 3/8	7.0	0 - 40	CV10158042	0 - 100	CV10158058
G 1/2	8.1		CV10158043		CV10158059
G 3/4	8.4		CV10158044		CV10158060
G 1	8.4		CV10158045		CV10158061
NPT 3/8	7.0		CV10158046		CV10158062
NPT 1/2	8.1		CV10158047		CV10158063
NPT 3/4	8.4		CV10158048		CV10158064
NPT 1	8.4		CV10158049		CV10158065

Further versions, on request.

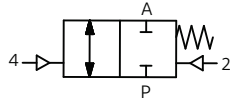
Ordering Chart - externally controlled

MIXER – DN 15

2/2-WAY VALVE – Flow direction: P → A (Back pressure: see standard specifications)

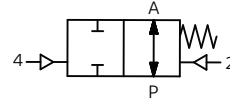
Symbol:

normally closed (NC)



Symbol:

normally open (NO)



PIPE SIZE	k_v -VALUE (m³/h)	NOMINAL PRESSURE (bar)	ORDER NUMBER	NOMINAL PRESSURE (bar)	ORDER NUMBER
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2/2-Way-valve - externally controlled, normally closed (NC)

G 3/8	7.0	0 - 16	CV10159002	0 - 64	CV10159018
G 1/2	8.1		CV10159003		CV10159019
G 3/4	8.4		CV10159004		CV10159020
G 1	8.4		CV10159005		CV10159021
NPT 3/8	7.0		CV10159006		CV10159022
NPT 1/2	8.1		CV10159007		CV10159023
NPT 3/4	8.4		CV10159008		CV10159024
NPT 1	8.4		CV10159009		CV10159025
G 3/8	7.0	0 - 40	CV10159010	0 - 100	CV10159026
G 1/2	8.1		CV10159011		CV10159027
G 3/4	8.4		CV10159012		CV10159028
G 1	8.4		CV10159013		CV10159029
NPT 3/8	7.0		CV10159014		CV10159030
NPT 1/2	8.1		CV10159015		CV10159031
NPT 3/4	8.4		CV10159016		CV10159032
NPT 1	8.4		CV10159017		CV10159033

2/2-Way-valve - externally controlled, normally open (NO)

G 3/8	7.0	0 - 16	CV10159034	0 - 64	CV10159050
G 1/2	8.1		CV10159035		CV10159051
G 3/4	8.4		CV10159036		CV10159052
G 1	8.4		CV10159037		CV10159053
NPT 3/8	7.0		CV10159038		CV10159054
NPT 1/2	8.1		CV10159039		CV10159055
NPT 3/4	8.4		CV10159040		CV10159056
NPT 1	8.4		CV10159041		CV10159057
G 3/8	7.0	0 - 40	CV10159042	0 - 100	CV10159058
G 1/2	8.1		CV10159043		CV10159059
G 3/4	8.4		CV10159044		CV10159060
G 1	8.4		CV10159045		CV10159061
NPT 3/8	7.0		CV10159046		CV10159062
NPT 1/2	8.1		CV10159047		CV10159063
NPT 3/4	8.4		CV10159048		CV10159064
NPT 1	8.4		CV10159049		CV10159065

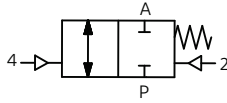
Further versions, on request.

Distributor – DN 25

2/2-WAY VALVE – Flow direction: P → A (Back pressure: see standard specifications)

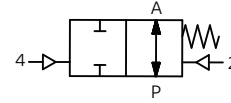
Symbol:

normally closed (NC)



Symbol:

normally open (NO)



PIPE SIZE	k_v -VALUE (m ³ /h)	NOMINAL PRESSURE (bar)	ORDER NUMBER	NOMINAL PRESSURE (bar)	ORDER NUMBER
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2/2-Way-valve - externally controlled, normally closed (NC)

G 3/4	12.2	0 - 16	CV10258002	0 - 64	CV10258018
G 1	16.5		CV10258003		CV10258019
G 1-1/4	19.7		CV10258004		CV10258020
G 1-1/2	21.9		CV10258005		CV10258021
NPT 3/4	12.2		CV10258006		CV10258022
NPT 1	16.5		CV10258007		CV10258023
NPT 1-1/4	19.7		CV10258008		CV10258024
NPT 1-1/2	21.9		CV10258009		CV10258025
G 3/4	12.2	0 - 40	CV10258010	0 - 100	CV10258026
G 1	16.5		CV10258011		CV10258027
G 1-1/4	19.7		CV10258012		CV10258028
G 1-1/2	21.9		CV10258013		CV10258029
NPT 3/4	12.2		CV10258014		CV10258030
NPT 1	16.5		CV10258015		CV10258031
NPT 1-1/4	19.7		CV10258016		CV10258032
NPT 1-1/2	21.9		CV10258017		CV10258033

2/2-Way-valve - externally controlled, normally open (NO)

G 3/4	12.2	0 - 16	CV10258034	0 - 64	CV10258050
G 1	16.5		CV10258035		CV10258051
G 1-1/4	19.7		CV10258036		CV10258052
G 1-1/2	21.9		CV10258037		CV10258053
NPT 3/4	12.2		CV10258038		CV10258054
NPT 1	16.5		CV10258039		CV10258055
NPT 1-1/4	19.7		CV10258040		CV10258056
NPT 1-1/2	21.9		CV10258041		CV10258057
G 3/4	12.2	0 - 40	CV10258042	0 - 100	CV10258058
G 1	16.5		CV10258043		CV10258059
G 1-1/4	19.7		CV10258044		CV10258060
G 1-1/2	21.9		CV10258045		CV10258061
NPT 3/4	12.2		CV10258046		CV10258062
NPT 1	16.5		CV10258047		CV10258063
NPT 1-1/4	19.7		CV10258048		CV10258064
NPT 1-1/2	21.9		CV10258049		CV10258065

Further versions, on request.

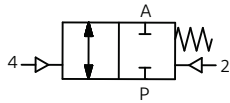
Ordering Chart - externally controlled

MIXER – DN 25

2/2-WAY VALVE – Flow direction: P → A (Back pressure: see standard specifications)

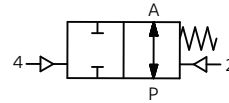
Symbol:

normally closed (NC)



Symbol:

normally open (NO)



PIPE SIZE	k_v -VALUE (m³/h)	NOMINAL PRESSURE (bar)	ORDER NUMBER	NOMINAL PRESSURE (bar)	ORDER NUMBER
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2/2-Way-valve - externally controlled, normally closed (NC)

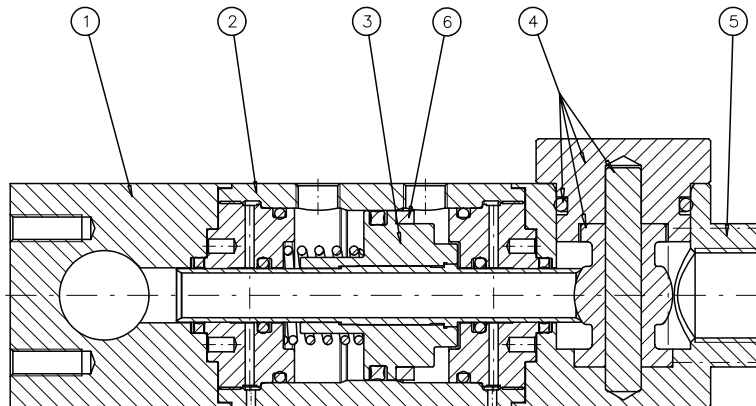
G 3/4	12.2	0 - 16	CV10259002	0 - 64	CV10259018
G 1	16.5		CV10259003		CV10259019
G 1-1/4	19.7		CV10259004		CV10259020
G 1-1/2	21.9		CV10259005		CV10259021
NPT 3/4	12.2		CV10259006		CV10259022
NPT 1	16.5		CV10259007		CV10259023
NPT 1-1/4	19.7		CV10259008		CV10259024
NPT 1-1/2	21.9		CV10259009		CV10259025
G 3/4	12.2	0 - 40	CV10259010	0 - 100	CV10259026
G 1	16.5		CV10259011		CV10259027
G 1-1/4	19.7		CV10259012		CV10259028
G 1-1/2	21.9		CV10259013		CV10259029
NPT 3/4	12.2		CV10259014		CV10259030
NPT 1	16.5		CV10259015		CV10259031
NPT 1-1/4	19.7		CV10259016		CV10259032
NPT 1-1/2	21.9		CV10259017		CV10259033

2/2-Way-valve - externally controlled, normally open (NO)

G 3/4	12.2	0 - 16	CV10259034	0 - 64	CV10259050
G 1	16.5		CV10259035		CV10259051
G 1-1/4	19.7		CV10259036		CV10259052
G 1-1/2	21.9		CV10259037		CV10259053
NPT 3/4	12.2		CV10259038		CV10259054
NPT 1	16.5		CV10259039		CV10259055
NPT 1-1/4	19.7		CV10259040		CV10259056
NPT 1-1/2	21.9		CV10259041		CV10259057
G 3/4	12.2	0 - 40	CV10259042	0 - 100	CV10259058
G 1	16.5		CV10259043		CV10259059
G 1-1/4	19.7		CV10259044		CV10259060
G 1-1/2	21.9		CV10259045		CV10259061
NPT 3/4	12.2		CV10259046		CV10259062
NPT 1	16.5		CV10259047		CV10259063
NPT 1-1/4	19.7		CV10259048		CV10259064
NPT 1-1/2	21.9		CV10259049		CV10259065

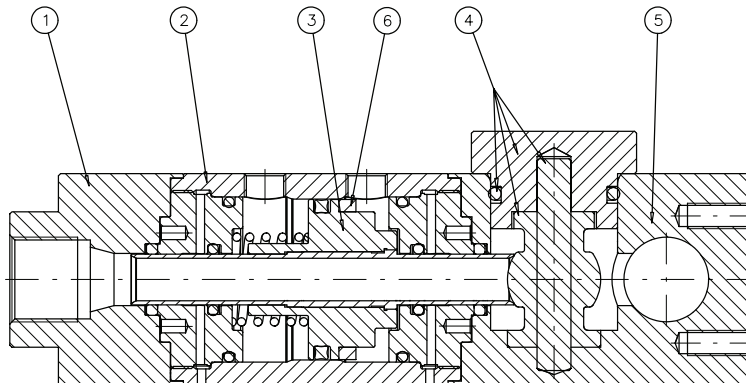
Further versions, on request.

DISTRIBUTOR



POSITION	DESCRIPTION	QUANTITY
1	Input module	1
2	Cylinder	1
3	Piston with control tube	1
4	Seat gasket complet	1
5	Connecting piece output	1
6	Magnetic ring	1

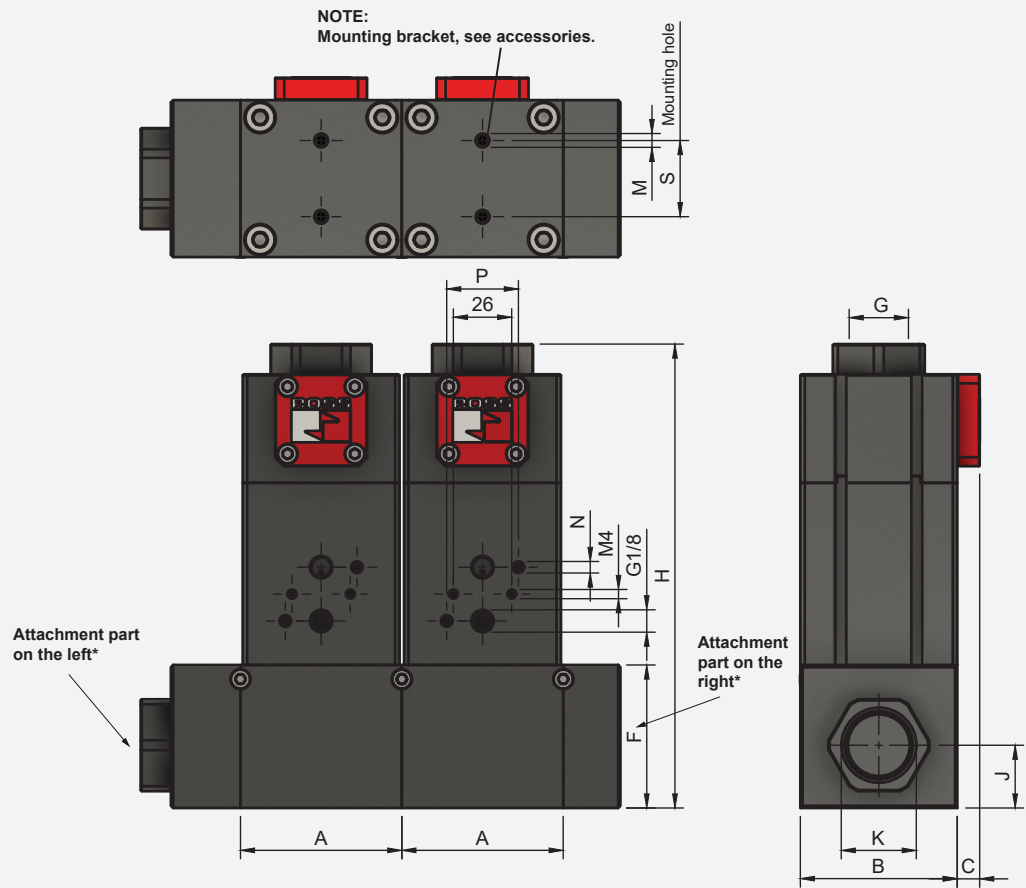
MIXER



POSITION	DESCRIPTION	QUANTITY
1	Connecting piece input	1
2	Cylinder	1
3	Piston with control tube	1
4	Seat gasket complet	1
5	Output module	1
6	Magnetic ring	1

DISTRIBUTOR

Standard view with control connection on the front

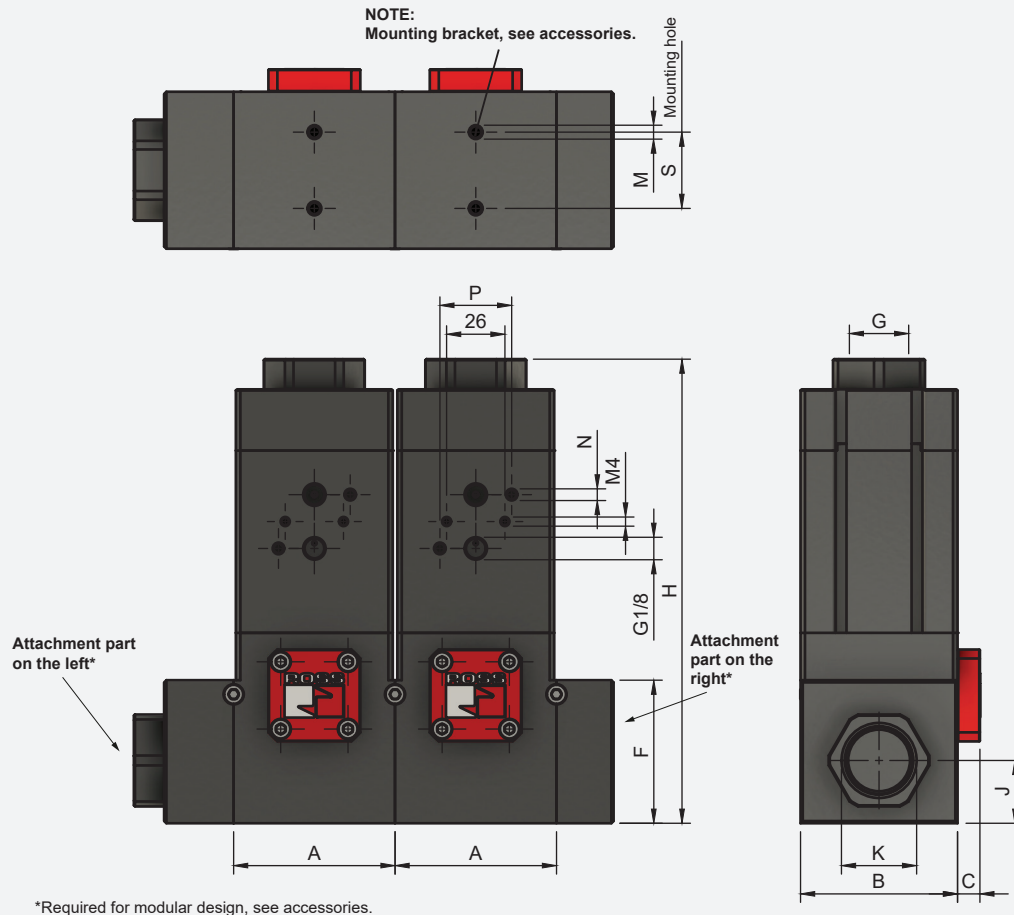


*Required for modular design, see accessories.

	DIMENSIONS (mm)											
	A	B	C	F	G / NPT	H	I	K	M	N	P	S
DN 10	52	50	10	49.5	1/4, 3/8, 1/2, 3/4	168	21	G 1; NPT 1	M6	-	-	30
DN 15	72	70	10	63.8	3/8, 1/2, 3/4, 1	207	28	G 1-1/4; NPT 1-1/4	M6	M5	32	38
DN 25	92	90	10	82	3/4, 1, 1-1/4, 1-1/2	275	36	G 1-1/2; NPT 1-1/2	M8	M5	32	45

MIXER

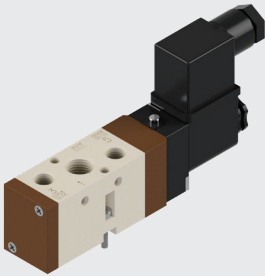
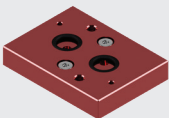
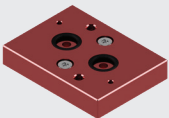
Standard view with control connection on the front



	DIMENSIONS (mm)											
	A	B	C	F	G / NPT	H	I	K	M	N	P	S
DN 10	52	50	10	49.5	1/4, 3/8, 1/2, 3/4	168	21	G 1; NPT 1	M6	-	-	30
DN 15	72	70	10	63.8	3/8, 1/2, 3/4, 1	207	28	G 1-1/4; NPT 1-1/4	M6	M5	32	38
DN 25	92	90	10	82	3/4, 1, 1-1/4, 1-1/2	275	36	G 1-1/2; NPT 1-1/2	M8	M5	32	45

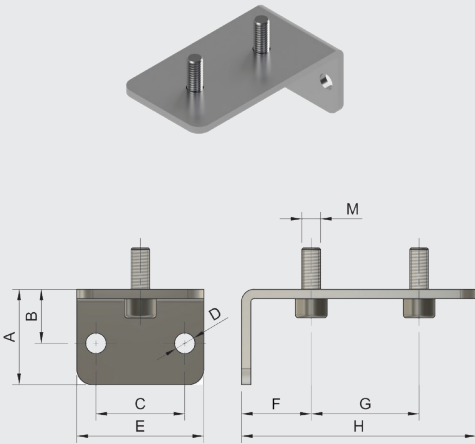
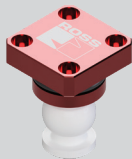
Accessories - externally controlled

2/2-WAY MODULAR COAXIAL-VALVE

	DESCRIPTION	ORDER NUMBER (separate position)
Throttle check valve		
	G 1/8 throttle check valves for speed control (valve open/close) for control with external pilot valves or valve terminals	D1968A1008
5/2-way-pilot valve		
	Pilot valve, 5/2-way - 24 VDC incl. device connection box	CS10520002
	Pilot valve, 5/2-way - 24 VDC incl. device connection box Actuating magnet according to UR MH 13513 and CSA LR 51090 UR device connection box	CS10520004
	Pilot valve, 5/2-way - 230 VAC incl. device connection box	CS10520003
	Pilot valve, 5/2-way - 230 VAC incl. device connection box Actuating magnet according to UR MH 13513 and CSA LR 51090 UR device connection box	CS10520005
Adapter plate for 5/2-way-pilot valve		
	Adapter plate for controlling a normally closed (NC) coaxial valve via a flanged 5/2-way pilot valve	ZP-CS-CV10NC
	Adapter plate for controlling a normally open (NO) coaxial valve via a flanged 5/2-way pilot valve	ZP-CS-CV10NO
Accessories 5/2-way pilot valve		
	Exhaust air silencer G 1/8 (2 pieces required per pilot valve 3+5)	RESK2865.2
	Throttle silencer G 1/8 (2 pieces per pilot valve for opening and closing regulation)	RESK2938.1
	Connector 24 VDC, M12x1, 3-pin, with LED, DIN EN 175301-803, Form B Industry	R-3142081

Accessories - externally controlled

2/2-WAY MODULAR COAXIAL-VALVE

	DESCRIPTION	ORDER NUMBER (separate position)							
End switch*									
	Three-wire LED yellow PNP normally open 10-30 VDC 2m free cable end	D0100IFM0031-2M							
	Three-wire LED yellow PNP normally open 10-30 VDC 10m free cable end	D0100IFM0031							
	Three-wire LED yellow PNP normally open 10-30 VDC 6m free cable end, expl. proof	D0100IFM0033-6M							
	M 8, 3-pin LED yellow PNP normally open 10-30 VDC, 0.3 m cable	D0100IFM0032							
Mounting bracket set (module)									
	Mounting bracket set consisting of one bracket and two mounting screws. Material of the mounting bracket: stainless steel 1.4301	HTW-CV10-DN10-MODUL							
		HTW-CV10-DN15-MODUL							
		HTW-CV10-DN25-MODUL							
	Mounting bracket - Dimensions - mm								
	A	B	C	D	E	F	G	H	M
DN10	20.5	12	23	6.4	35	13.5	30	53.5	M6
DN15	30	17	28	6.4	40	22	34	74	M6
DN25	30	18	34	8.4	50	26.5	45	94	M8
Valve Seat with Carrier**									
	Valve seat repair kit DN 10 FKM, aluminium anodized	DICH-CV10-DN10-FA							
	Valve seat repair kit DN 15 FKM, aluminium anodized	DICH-CV10-DN15-FA							
	Valve seat repair kit DN 25 FKM, aluminium anodized	DICH-CV10-DN25-FA							

*Complete assembly of pilot valves and end switches on coaxial valve possible upon request.

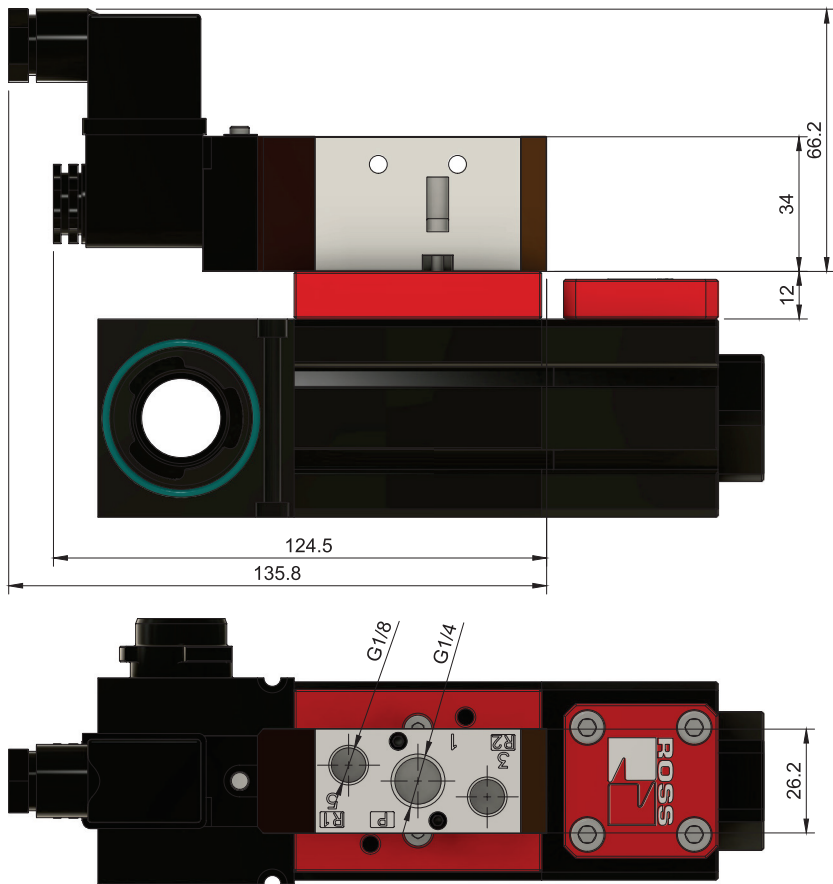
**If you have any questions, please contact ROSS Service.

5/2-Way Pilot Valve - externally controlled

TECHNICAL DATA

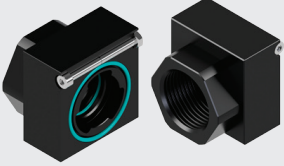
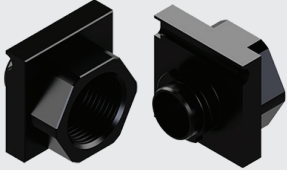
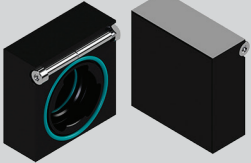
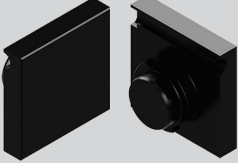
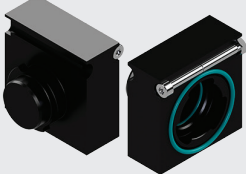
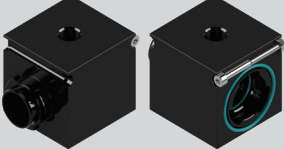
PILOT VALVE (acc. to VDI/VDE 3845)	Parameter	Special design
Voltage	24 VDC, 230 VAC 40 to 60 Hz	
Voltage tolerance	± 10% according to VDE 0580	
Power consumption	DC 2.5 Watt / AC 4,0 VA at 50/60 Hz	
Duty rating	100% ED	
E-port	Connector DIN EN 175301-803, Form B Industry	on request M12x1 (see accessories)
Enclosure rating	IP 65	explosion-proof
Ambient-/Media temperature	+5° to +60°C	
Flow media	filtered air, lubricated or unlubricated	
Pipe size	P1 = G 1/4, P3 and P5 = G 1/8	
Manual override	groping	

Dimensions - mm
Example: Mounting on the distributor



Standard structure
Distributor: Electrical connection - in the direction of the module
Mixer: Electrical connection - in the direction of the connection piece
180° rotated orientation, on request

2/2-WAY MODULAR COAXIAL VALVES

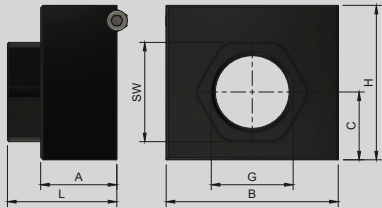
	Description	Order Number
Connecting pieces		
	Left-side pipe connection - aluminium black anodized, FKM	
	DN10 - G1 DN10 - NPT1 DN15 - G 1-1/4 DN15 - NPT 1-1/4 DN25 - G 1-1/2 DN25 - NPT 1-1/2	CV10-ASL-DN10-G1-FA CV10-ASL-DN10-N1-FA CV10-ASL-DN15-G114-FA CV10-ASL-DN15-N114-FA CV10-ASL-DN25-G112-FA CV10-ASL-DN25-N112-FA
	Right-side pipe connection - aluminium black anodized, FKM	
	DN10 - G 1 DN10 - NPT 1 DN15 - G 1-1/4 DN15 - NPT 1-1/4 DN25 - G 1-1/2 DN25 - NPT 1-1/2	CV10-ASR-DN10-G1-FA CV10-ASR-DN10-N1-FA CV10-ASR-DN15-G114-FA CV10-ASR-DN15-N114-FA CV10-ASR-DN25-G112-FA CV10-ASR-DN25-N112-FA
End-cover pieces		
	Left-side closure - aluminium black anodized, FKM	
	DN10 DN15 DN25	CV10-ABL-DN10-FA CV10-ABL-DN15-FA CV10-ABL-DN25-FA
	Right-side closure - aluminium black anodized, FKM	
	DN10 DN15 DN25	CV10-ABR-DN10-FA CV10-ABR-DN15-FA CV10-ABR-DN25-FA
Divider pieces		
	Divider pieces - aluminium black anodized, FKM	
	DN10 DN15 DN25	CV10-TS-DN10-FA CV10-TS-DN15-FA CV10-TS-DN25-FA
Sensorblock		
	Threaded module G 1/4 for monitoring function - aluminium black anodized, FKM	
	DN10 DN15 DN25	CV10-GM14-DN10-FA CV10-GM14-DN15-FA CV10-GM14-DN25-FA

Module Connectors for externally controlled and direct acting Valves

2/2-WAY MODULAR COAXIAL VALVES

ORDERING CHART

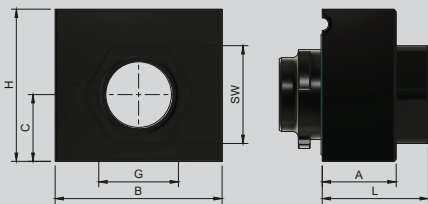
Connecting pieces - left-side



DIMENSIONS - mm

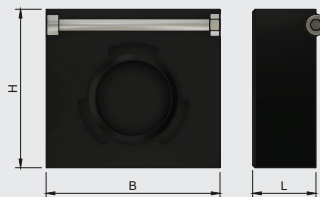
	A	B	C	G	H	L	SW
DN10	24.5	50	21	G 1	49.5	40	42
DN15	31	70	28	G 1-1/4	63.8	44.5	50
DN25	25	90	35	G 1-1/2	82	50	60

Connecting pieces - right-side



	A	B	C	G	H	L	SW
DN10	11	50	21	G 1	49.5	26.5	42
DN15	31	70	28	G 1-1/4	63.8	44.5	50
DN25	25	90	35	G 1-1/2	82	38	60

End-cover pieces - left-side



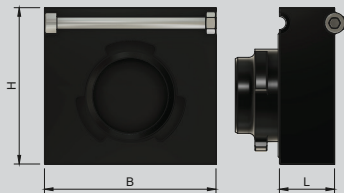
	L	B	H
DN10	20.5	50	49.5
DN15	25.5	70	63.8
DN25	26	90	82

End-cover pieces - right-side



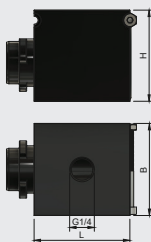
	L	B	H
DN10	10	50	49.5
DN15	25.5	70	63.8
DN25	13	90	82

Divider pieces



	L	B	H
DN10	20	50	49.5
DN15	22.5	70	63.8
DN25	21.5	90	82

Sensorblock



	L	B	H
DN10	52	50	49.5
DN15	72	70	63.8
DN25	92	90	82

PRE-INSTALLATION or SERVICE

1. Before servicing a valve or other pneumatic component, be sure all sources of energy are turned off, the entire pneumatic system is shut down and exhausted, and all power sources are locked out (ref: OSHA 1910.147, EN 1037).
2. All ROSS Group Products, including service kits and parts, should be installed and/or serviced only by persons having training and experience with pneumatic equipment. Because any product can be tampered with and/or need servicing after installation, persons responsible for the safety of others or the care of equipment must check ROSS Group Products on a regular basis and perform all necessary maintenance to ensure safe operating conditions.
3. All applicable instructions should be read and complied with before using any fluid power system to prevent harm to persons or equipment. In addition, overhauled or serviced valves must be functionally tested prior to installation and use. If you have any questions, call your nearest ROSS Group location.
4. Each ROSS Group Product should be used within its specification limits. In addition, use only ROSS Group components to repair ROSS Group Products.

WARNINGS:

Failure to follow these instructions can result in personal injury and/or property damage.

FILTRATION and LUBRICATION

1. Dirt, scale, moisture, etc., are present in virtually every air system. Although some valves are more tolerant of these contaminants than others, best performance will be realized if a filter is installed to clean the air supply, thus preventing contaminants from interfering with the proper performance of the equipment. The ROSS Group recommends a filter with a 5-micron rating for normal applications.
2. All standard ROSS Group filters and lubricators with polycarbonate plastic bowls are designed for compressed air applications only. Use the metal bowl guard, where provided, to minimize danger from high pressure fragmentation in the event of bowl failure. Do not expose these products to certain fluids, such as alcohol or liquefied petroleum gas, as they can cause bowls to rupture, creating a combustible condition and hazardous leakage. Immediately replace crazed, cracked, or deteriorated bowls.
3. Only use lubricants which are compatible with materials used in the valves and other components in the system. Normally, compatible lubricants are petroleum base oils with oxidation inhibitors, an aniline point between 180°F (82°C) and 220°F (104°C), and an ISO 32, or lighter, viscosity. Avoid oils with

phosphate type additives which can harm polyurethane components, potentially leading to valve failure which risks personal injury, and/or damage to property.

WARNINGS:

Failure to follow these instructions can result in personal injury and/or property damage.

AVOID INTAKE/EXHAUST RESTRICTION

1. Do not restrict air flow in the supply line. To do so could reduce the pressure of the supply air below minimum requirements for the valve and thereby causing erratic action.
2. Do not restrict a valve's exhaust port as this can adversely affect its operation. Exhaust silencers must be resistant to clogging and must have flow capacities at least as great as the exhaust capacities of the valves. Contamination of the silencer can result in reduced flow and increased back pressure.

WARNINGS: *Failure to follow these instructions can result in personal injury and/or property damage.*

SAFETY APPLICATIONS

1. Mechanical Power Presses and other potentially hazardous machinery using a pneumatically controlled clutch and brake mechanism must use a press control double valve with a monitoring device. A double valve without a self-contained monitoring device should be used only in conjunction with a control system which assures monitoring of the valve. All double valve installations involving hazardous applications should incorporate a monitoring system which inhibits further operation of the valve and machine in the event of a failure within the valve mechanism.
2. Safe Exhaust (dump) valves without a self-contained monitoring device should be used only in conjunction with a control system which assures monitoring of the valve. All Safe Exhaust valve installations should incorporate a monitoring system which inhibits further operation of the valve and machine in the event of a failure within the valve mechanism.
3. Per specifications and regulations, the ROSS L-O-X® and L-O-X® with EEZ-ON®, N06 and N16 Series operation products are defined as energy isolation devices, NOT AS EMERGENCY STOP DEVICES.

WARNINGS:

Failure to follow these instructions can result in personal injury and/or property damage.

STANDARD WARRANTY

All products sold by the ROSS Group are warranted for a one-year period [with the exception of Filters, Regulators and Lubricators ("FRLs") which are warranted for a period of seven (7) years] from the date of purchase. All products are, during their respective warranty periods, warranted to be free of defects in material and workmanship. The ROSS Group's obligation under this warranty is limited to repair, replacement or refund of the purchase price paid for products which the ROSS Group has determined, in its sole discretion, are defective. All warranties become void if a product has been subject to misuse, misapplication, improper maintenance, modification or tampering. Products for which warranty protection is sought must be returned to the ROSS Group freight prepaid.

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		United Kingdom	ROSS UK	Tel: +44 (0)1254 872277	www.rossuk.co.uk
	AMERICAS	USA	ROSS CONTROLS	Tel: +1-248-764-1800	www.rosscontrols.com
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