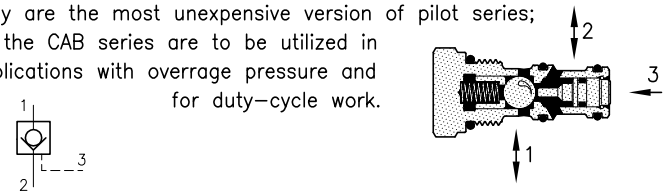
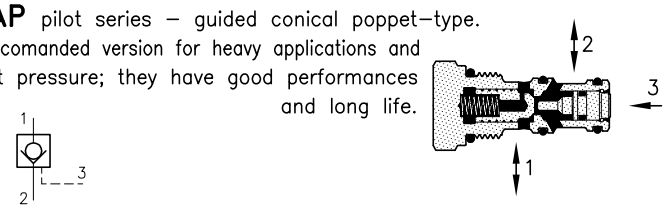
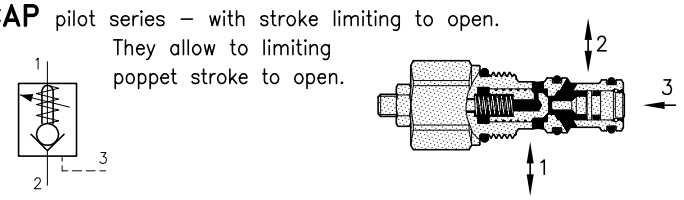
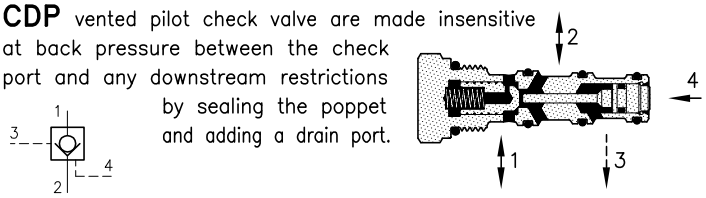
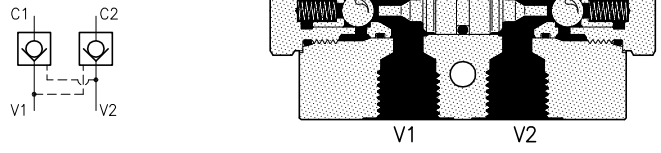
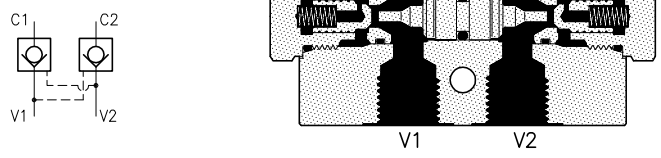
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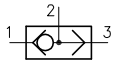
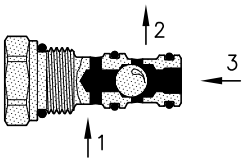
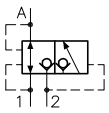
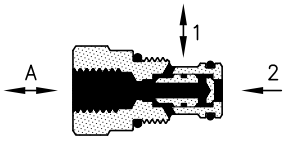
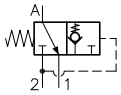
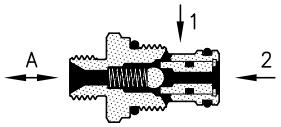
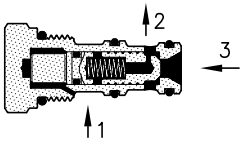
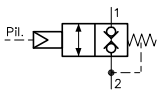
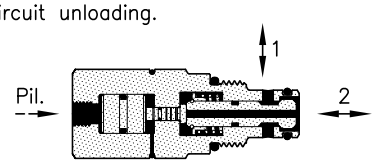
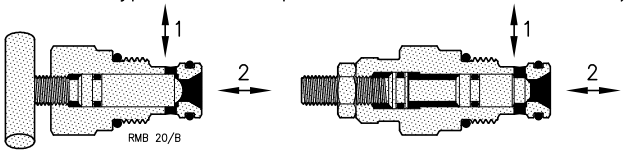
Pilot check valves.

The directional pilot poppet–type valves are available into two executions: poppet–type and ball–type.
On piloting piston of every valves there is a seal which can be removed by request.
For pilot ratios and pressure drop see technical detailed schedules.

Main features	Type	Q max. (l/min.)	P max. (bar)	Technical schedule
CAT pilot series – guided boll–type. They are the most unexpensive version of pilot series; as the CAB series are to be utilized in applications with overrage pressure and for duty–cycle work. 	**CAT 20**	20	210	05.090
	CAT 30	35	210	05.091
CAP pilot series – guided conical poppet–type. Reccomanded version for heavy applications and higt pressure; they have good performances and long life. 	**CAP 20**	30	350	05.100
	CAP 30	50	350	05.110 05.111
	CAP 50	100	350	05.120
CAP pilot series – with stroke limiting to open. They allow to limiting poppet stroke to open. 	**CAP 20/L**	30	350	05.140
CDP vented pilot check valve are made insensitive at back pressure between the check port and any downstream restrictions by sealing the poppet and adding a drain port. 	**CDP 30**	50	350	05.150
CAB ..–CSL 57 series – guided ball–type. They have a very good oiltight but limited performances; are used in average pressure circuits and for light duty–cycle work, the body valve is realized in alluminium alloy. 	**CAB 20/CSL 57**	20	210	05.200
	CAB 30/CSL 57	35	210	05.210
CAE ..–CSL 57 series – guided conical poppet–type. They have a very good oiltight, ideal for continuous work with frequent flow reverse and high pressures. 	**CAE 20/CSL 57**	30	350	05.220
	CAE 30/CSL 57	50	350	05.230
	CAE 50/CSL 57	100	350	05.240

Shuttle valves.

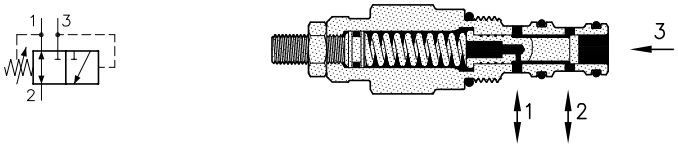
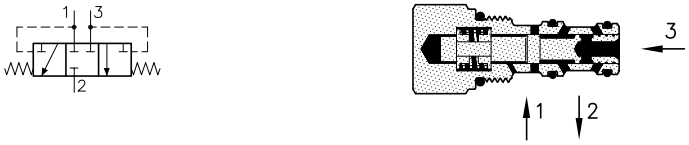
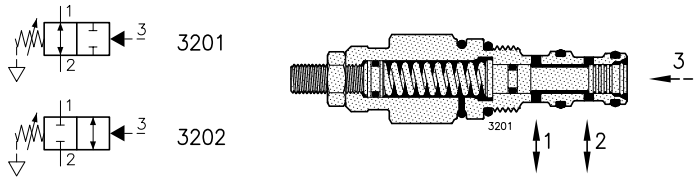
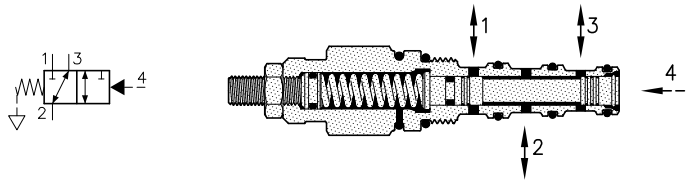
The shuttle valves are available in different executions and accomplish many cyrcuital functions.
The guided ball or poppet type guarantees a perfect oiltight; these valves are used in piloting distributors and valves' systems, in hydraulic brakes automatic release system and in unit power.

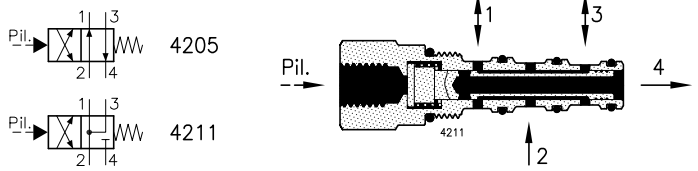
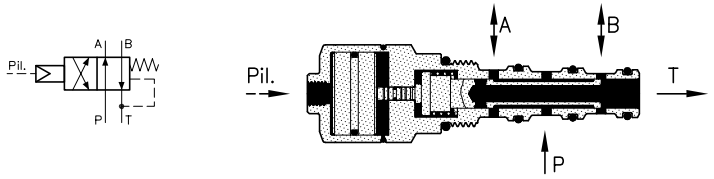
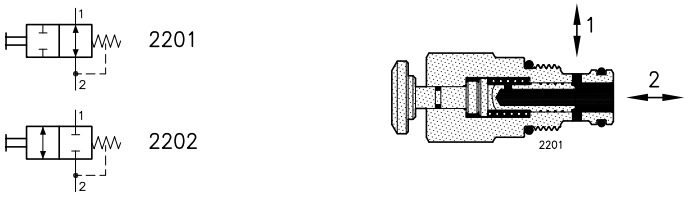
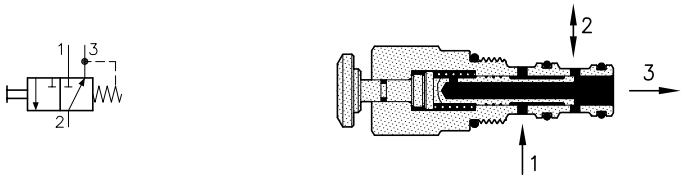
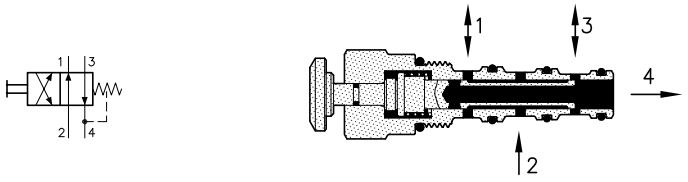
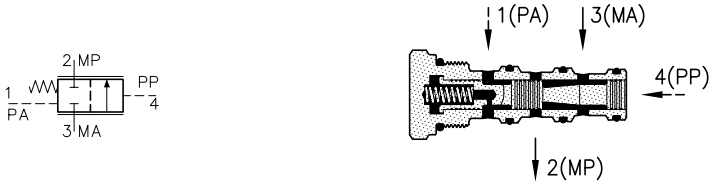
Main features	Type	Q max. (l/min.)	P max. (bar)	Technical schedule
CCI series – guided ball–type. They are shuttle valves with two way–in and one way–out. The high pressure way–in is always automatically connected with the way–out, while the second way–in keeps tight closed.  	**CCI 20**	25	350	05.300
	CCI 30	50	350	05.310
CCE series – guided conical poppet–type. They have a very good oiltight, ideal for hydraulic brakes control. The return line of port A always happens through line 1.  	**CCE 20**	16	210	05.320
CDE series – guided poppet–type. The shuttle valves and the unloading valves are a very simplify version of directional automatic valve. The inlet flow happens through chamber 2 and flow is automatically sent to port A; when the flow from chamber 2 stops there is the commutation and the retourn line of port A happens through line 1.  	**CDE 20**	16	210	05.330
CPA series – pilot to closed, guided conical poppet–type. They are pilot to closed check valves normally open in one direction; they close when enough pressure is apply on piloting line.  	**CPA 30**	50	350	05.350
OCD 32/2202 pneumatic pilot – spring return. Directional valves poppet–type for circuit unloading.  	**OCD 20/ 2202–PN**	25	315	05.380
	OCD 20/ 2202–PN7	25	315	05.385
RMB series. They are manual valves total shut off with conical seat. Also available with handknob control, can be used as choker when a fine regulation is non required. The flow direction is indifferent. (RMB 20/B – Guided ball–type – External parts in stainless steel and brass).  	**RMB 20/B**	50	315	05.515
	RMB 20	50	315	05.520
	RMB 30	100	315	05.530

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Directional spool–type valves.

They are spool–type valves thought of to change over automatically the flow direction in relation to piloting. Available in two different executions they satisfy many needs simplifing the hydraulic circuits realization.

Main features	Type	Q max. (l/min.)	P max. (bar)	Technical schedule
VDT ../3203 series. They are a fixed setting version tipically used for regenerative circuits realization or as automatic selector valve combined with solenoid poppet–type valves for single acting cylinders control. 	**VDT 20/3203**	25	350	05.600
	VDT 30/3203	50	350	05.610
	VDT 50/3203	100	350	05.620
VDT 20/3203–IB series. They are a version which contemplates the regulation for pressure setting. 	**VDT 20/3203**	25	350	05.601 05.605
VDT ../3306 series. Shuttle valves for hydrostatic trasmissions in closed circuits. 	**VDT 30/3306**	40	420	05.650
VDT ../32.. series – normally open or closed. Hydraulic pilot directional valves adjusting throught a connected atmospherical pressure spring, indifferent to circuit's pressure.  3201 3202	**VDT 20/3201**	25	350	05.670
	VDT 30/3201	50	350	05.690
	VDT 20/3202	25	350	05.670
	VDT 30/3202	50	350	05.690
VDT ../4203 series – shuttle valves. Hydraulic pilot directional valves adjusting throught a connected atmospherical pressure spring, indifferent to circuit's pressure. 	**VDT 20/4203**	25	350	05.740
	VDT 30/4203	50	350	05.750

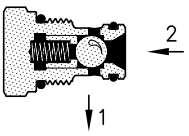
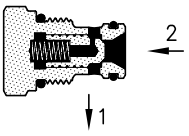
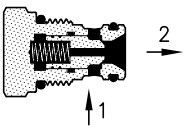
Main features	Type	Q max. (l/min.)	P max. (bar)	Technical schedule
VDT ../42.. series. Directional shuttle valves with external hydraulic pilot. (4211 – regenerative circuit). 	**VDT 20/4205**	20	350	05.780
	VDT 30/4205	40	350	05.790
	VDT 20/4211	20	350	05.780
	VDT 30/4211	40	350	05.790
VDT 50/4205 series. Directional shuttle valves with external pneumatic pilot. 	**VDT 50/ 4205–PN**	80	315	05.798
VDT ../22..–PS series. Manual directional control valves. 	**VDT 20/ 2201–PS**	20	350	05.800
	VDT 30/ 2201–PS	40	350	05.802
	VDT 20/ 2202–PS	20	350	05.800
	VDT 30/ 2202–PS	40	350	05.802
VDT ../3204–PS series. Manual directional control valves for pressure gauge. 	**VDT 20/ 3204–PS**	20	350	05.810
VDT ../4205–PS series. Manual directional control valves. 	**VDT 30/ 4205–PS**	30	350	05.830
MTV series. Directional shuttle valves with external hydraulic pilots. 	**MTV 30**	50	350	05.900

Many other circuits are available on request.

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Check valves.

The check valves are available into two different executions: ball–type and poppet–type.
The first one is an unexpensive version suitable for light uses, while the second one version with pilot piston offers larger lasting and good oiltight guarantee.

Main features	Type	Q max. (l/min.)	P max. (bar)	Technical schedule
CB series – ball–type. They are little check valves, suitable for easy execution of cavity setting. They have a very good oiltight and are mainly used in pilot systems and hydraulic installations with narrow flows.  	**CB 20/D05**	20	350	05.005
CAB series – guided ball–type. They have a very good oiltight, are used as by–pass, anti–cavitation valves, on pump's turn or as check valves in circuits with average pressure and for duty–cycle work.  	**CAB 10**	2	210	05.008
	CAB 20	25	210	05.010
	CAB 30	40	210	05.020
CAE series – guided conical poppet–type. They have a very good oiltight, ideal solution for a continuous service with frequent flows reverse, high pressures and low pressure drop.  	**CAE 20**	35	420	05.050
	CAE 30	60	420	05.060
	CAE 50	135	420	05.070
	CAE 70	300	420	05.080
EAC series – guided conical poppet–type. They have a very good oiltight, ideal solution for a continuous service with frequent flows reverse, high pressures and low pressure drop.  	**EAC 30**	60	420	05.065