CP-FS Type Cylinder Valve

Single-seat, 2-way valve

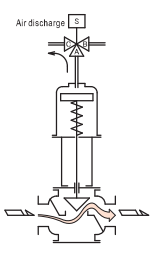
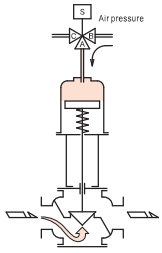
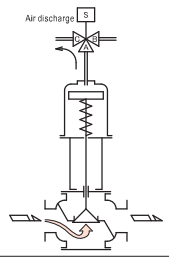
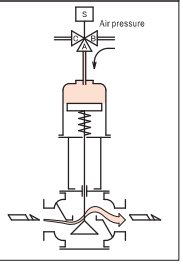
ON-OFF valve that can open or close by switching operating air pressure through 3-way solenoid valve and then supplying pressure to cylinder valve or discharge air. The drive unit of standard model is single action type, while other models have double action that is to be opeated by 4-way or 5-way air pressure.

SPECIFICATIONS

Model name		CP53-FS		CP85-FS		CP125-FS	
Code name		CP53FS-BD	CP53FS-BS	CP85FS-BD	CP85FS-BS	CP125FS-BD	CP125FS-BS
Size		15~25(½″~1″)		32~50(1¼″~2″)		65~100(2½″~4″)	
Applicable fluid		Water, oils*1, hot water & gases	Steam	Water, oils*1, hot water & gases	Steam	Water, oils*1, hot water & gases	Steam
Fluid temperature		100℃ or less	180℃ or less	100℃ or less	180℃ or less	100℃ or less	180℃ or less
Ambient temperature		−10~60℃					
Body part	Rated pressure	1.0MPa					
	Disc type	Two-way single seated valve					
	Leakage allowance	Less than 0.01% of rated flow					
	Operation	Air to close(Direct plug), Air to open(Reverse plug)					
	Materials	Body(Cast iron), Trim(Cast bronze)*2.*3.					
	End connection	Flanged JIS 10KFF					
	Pressure test	Hydraulic 1.5MPa					
Actuating part	Type	Single action type (Spring-return)*4.					
	Materials	Cast aluminum					
	Actuating air pressure	0.3~0.7MPa					
	Air tight test	1.5 times of actuating air pressure. By air pressure					

* 1. If there is any local regulation for fuel oils or diesel oil, confirm the body materials according to the regulation.
* 2. For models with trim parts made of stainless steel, please contact our agent in your area.
* 3. For models with Teflon disc, please contact our agent in your area.
* 4. Double action is available upon your request.

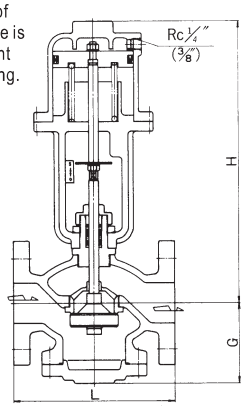
OPERATION & FLOW DIRECTION

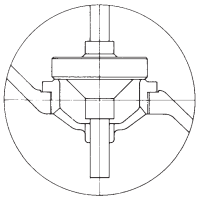
Type	Direct acting · Direct plug		Reverse acting · Reverse plug	
	At discharge-Open	At pressurized-Closed	At discharge-Closed	At pressurized-Open
Operation				

CONSTRUCTION

CP85-FS Type(Reverse plug)

The structure of CP125-FS Type is slightly different from the drawing.





(Direct plug)

DIMENSIONS AND OTHERS

(mm)

Model name	Size	Dimensions					Mass (kg)	Cylinder capacity(ℓ)		Cv value
		L	Direct acting		Reverse acting			Direct acting	Reverse acting	
			G	H	G	H				
CP53-FS	15(½″)	112	51	318	62	288	5	0.09	0.10	3.6
	20(¾″)	125	56	320	64	293	5.5	0.09	0.10	6.4
	25(1″)	140	61	325	69	298	7	0.09	0.10	10
CP85-FS	32(1¼″)	160	67	380	75	355	11.5	0.26	0.29	16
	40(1½″)	180	72	398	96	360	13.5	0.28	0.29	25
	50(2″)	200	82	408	100	370	17.5	0.28	0.29	40
CP125-FS	65(2½″)	270	120	516	120	516	42	0.71	0.74	67
	80(3″)	290	141	535	141	535	50	0.79	0.82	102
	100(4″)	350	160	555	160	555	63	0.87	0.82	160

Flange code JIS10KFF

ACTUATING AIR PRESSURE AND DIFFERENTIAL PRESSURE LIMIT

(MPa)

Model name	Size	Actuating air pressure									
		0.3		0.4		0.5		0.6		0.7	
		Direct acting	Reverse acting	Direct acting	Reverse acting	Direct acting	Reverse acting	Direct acting	Reverse acting	Direct acting	Reverse acting
CP53-FS	15(½″)	0.45	0.90	0.90	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	20(¾″)	0.30	0.60	0.65	1.0	0.95	1.0	1.0	1.0	1.0	1.0
	25(1″)	0.25	0.50	0.55	0.90	0.80	1.0	1.0	1.0	1.0	1.0
CP85-FS	32(1¼″)	0.60	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	40(1½″)	0.45	0.70	0.75	1.0	1.0	1.0	1.0	1.0	1.0	1.0
	50(2″)	0.30	0.45	0.55	0.75	0.75	1.0	1.0	1.0	1.0	1.0
CP125-FS	65(2½″)	0.40	0.60	0.70	0.95	0.95	1.0	1.0	1.0	1.0	1.0
	80(3″)	0.30	0.40	0.50	0.65	0.70	0.90	0.85	1.0	1.0	1.0
	100(4″)	0.20	0.25	0.30	0.40	0.45	0.60	0.60	0.75	0.70	0.90