

CHECK VALVE

RDCS – Hydraulic Cushion Slow Closing Check Valve

REF **EFC-384** ISSUED 15 Jun 2026

SPECIFICATIONS

Size	DN50–DN600
Pressure	PN16–PN16
End connection	flanged (EN 1092-2)

STANDARDS

Design	EN 12334
--------	-----------------

APPROVALS & CERTIFICATIONS

- ISO 9001

APPLICATIONS

- Sewage pump discharge
- Sludge handling
- Slurry service
- Wastewater treatment

FEATURES

- The RDCS incorporates a hydraulic dashpot that decelerates the disc through the last part of its travel before seating, eliminating the impact and pressure spike of valve slam
- Suitable for pump discharge on sewage, sludge and slurry where aggressive media would quickly damage spring-assisted check valves
- No springs in contact with media

PRESSURE-TEMPERATURE RATING

CLASS	TEMPERATURE	MAX PRESSURE
PN16	-10°C	16 bar
PN16	80°C	16 bar

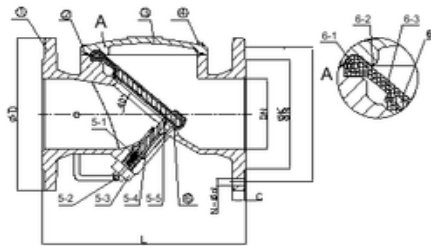


CHECK VALVE

RDCS – Hydraulic Cushion Slow Closing Check Valve

SECTION Technical drawing 1 REF EFC-384

RDCS-Main Valve



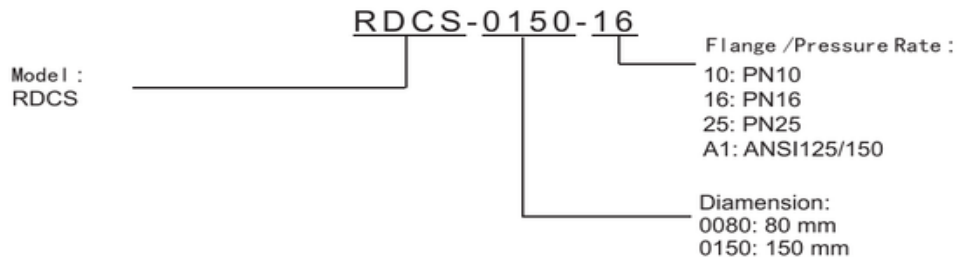
Pressure test:
Standard: BS/ISO/
Body seat: 1.1 X PN
Body: 1.5 X PN

Parts List

Item	Part name	Material	Standard
1	Body	Cast iron	GJS 500-7
2	O-ring	Rubber	NBR
3	Bonnet	Cast iron	GJS 500-7
4	Bolts	Steel galvanized	Commercial
5	Slowly-closing steel	Stainless steel	AISI 304
5-1	Spring	Stainless steel	AISI 304
5-2	Slowly-closing tail plug	Stainless steel	AISI 304
5-3	Fixed nut	Bronze	ZCuAL10Fe3
5-4	Plunger pipe	Stainless steel	AISI 304
5-5	Plunger rod	Stainless steel	AISI 304
6	Wedge	Steel+rubber+nylon	#45steel+NBR/EPDM+nylon
6-1	Pin	stainless steel	AISI 304
6-2	Lining	rubber	NBR / EPDM
6-3	Reinforced fibre	Nylon	Commercial
6-4	Wedge	CS /cast iron	#45 steel/GJS 500-7
7	stainless pipe	stainless steel	AISI 304
8	Needle valve	Stainless steel	AISI 304

Unit: mm

DN	Model	L	D1			D2			n- Ød					
			PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25	PN10	PN16	PN25
50	RDCS-0050	203		165			125				4-Ø19			19
65	RDCS-0065	216		185			145				4-Ø19	8-Ø19		19
80	RDCS-0080	241		200			160				8-Ø19			19
100	RDCS-0100	292		220	235		180	190			8-Ø19	8-Ø23		19
125	RDCS-0125	330		250	270		210	220			8-Ø19	8-Ø28		19
150	RDCS-0150	356		285	300		240	250			8-Ø23	8-Ø28	19	20
200	RDCS-0200	495		340	360		295	310		8-Ø23	12-Ø23	12-Ø28	20	22
250	RDCS-0250	622	395	405	425	350	355	370		12-Ø23	12-Ø28	12-Ø31	22	24.5
300	RDCS-0300	698	445	460	485	400	410	430		12-Ø23	12-Ø28	12-Ø31	24.5	27.5
350	RDCS-0350	787	505	520	---	460	470	---		16-Ø23	16-Ø28	---	24.5	26.5
400	RDCS-0400	914	565	580	---	515	525	---		16-Ø28	16-Ø31	---	24.5	28
450	RDCS-0450	914	615	640	---	565	585	---		20-Ø28	20-Ø31	---	25.5	30
500	RDCS-0500	978	670	715	---	620	650	---		20-Ø28	20-Ø34	---	26.5	31.5
600	RDCS-0600	1100	780	840	---	725	770	---		20-Ø31	20-Ø37	---	30	36



CHECK VALVE

RDCS – Hydraulic Cushion Slow Closing Check Valve

SECTION Dimensions per size REF EFC-384

SIZE	L	D1_PN16	D2_PN16	D1_PN10	D1_PN25	D2_PN10	D2_PN25
DN50	203	165	125	—	—	—	—
DN65	216	185	145	—	—	—	—
DN80	241	200	160	—	—	—	—
DN100	292	—	—	220	235	180	190
DN125	330	—	—	250	270	210	220
DN150	356	—	—	285	300	240	250
DN200	495	—	—	340	360	295	310
DN250	622	405	355	395	425	350	370
DN300	698	460	410	445	485	400	430
DN350	787	520	470	505	—	460	—
DN400	914	580	525	565	—	515	—
DN450	914	640	585	615	—	565	—
DN500	978	715	650	670	—	620	—
DN600	1100	840	770	780	—	725	—

All dimensions in millimetres unless stated otherwise. Values are nominal; tolerances confirmed at quote.