

BS FLANGED PRESSURE REDUCING VALVE

Type: SK720X

Doc No: DS-922-SK720X-01-E-S

1.0 PRODUCT OVERVIEW

Pressure reducing valve is a diaphragm hydraulic control valve driven by the hydraulic pressure of the pipeline itself. The hydrostatic pressure and dynamic pressure of the outlet are stable at the set value regardless of the fluctuation of the inlet pressure or the change of the outlet flow rate. The outlet pressure can be adjusted within a certain range to meet clients' requirement.



Dimensions:

2"(DN50)-24"(DN600)

Design Standard:

CJ/T 219, CJ/T 256, JB/T 10674, BS EN 558 series 10

Connection Standard:

BS EN 1092-2

Working Pressure:

PN25、PN16、PN10

Application:

The flanged pressure reducing valve is mainly applied in the waterworks system, working temperature is from 0°C to 80°C

Material of Matching Products:

Ductile iron flange: BS EN 1092-2;

Cast iron flange: BS EN 1092-2;

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Steel flange: BS EN 1092-1;

Surface Treatment:

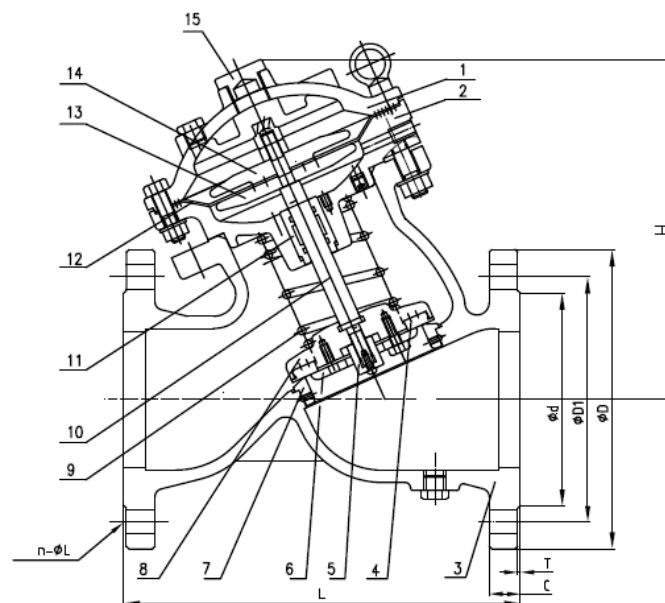
- ☐ Epoxy power painting (color numbers as RAL5015, RAL5005, etc)
- ☐ Painting (color numbers as RAL5005, etc)
- ☐ Others would be available upon clients' detailed request

2.0 APPROVALS



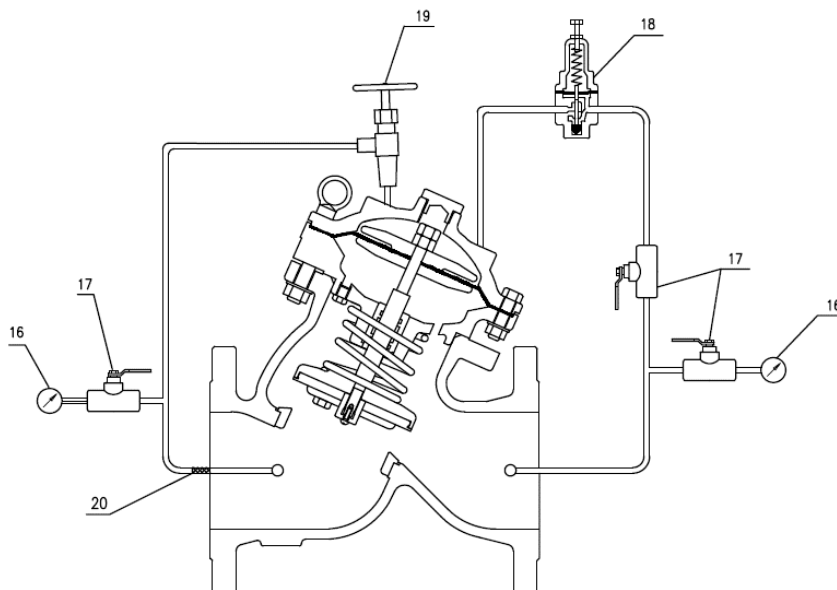
3.0 SPECIFICATIONS

Product Sketch:



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Part No.	Part	Standard Specification	Options
1	Up Bonnet	EN-GJS-450-10	
2	Middle Bonnet	EN-GJS-450-10	
3	Valve Body	EN-GJS-450-10	
4	Main Gasket	EPDM	
5	Disc head	SS304	
6	Gland of Main Disc	EN-GJS-450-10	
7	Seat	SS304	
8	Main Disc	EN-GJS-450-10	
9	Spring	SS304	
10	Stem	SS304	
11	Bushing	Bronze	
12	Diaphragm	EPDM	
13	Bottom Gland	EN-GJS-450-10	
14	Up Gland	EN-GJS-450-10	
15	Cap Plug	Bronze	
16	Pressure Gauge		
17	Ball Valve		
18	Pilot Valve		
19	Needle Valve		
20	Built-in Strainer		

4.0 DIMENSIONS AND PERFORMANCE

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4.1 Dimensions

DN		PN	Dimensions (mm)							
Inch	mm		L	H	D	D1	d	C	T	n-ΦL
2"	50	10/16	203	170	165	125	99	19	3	4-Φ19
2.5"	65	10/16	216	195	185	145	118	19	3	4-Φ19
3"	80	10/16	241	215	200	160	132	19	3	8-Φ19
4"	100	10/16	292	255	220	180	156	19	3	8-Φ19
5"	125	10/16	330	290	250	210	184	19	3	8-Φ19
6"	150	10/16	356	360	280	240	211	19	3	8-Φ23
8"	200	10	495	450	340	295	266	20	3	8-Φ23
		16	495		340	295	266	20	3	12-Φ23
10"	250	10	622	550	405	350	319	22	3	12-Φ23
		16	622		405	355	319	22	3	12-Φ28
12"	300	10	698	645	460	400	370	24.5	4	12-Φ23
		16	698		460	410	370	24.5	4	12-Φ28
14"	350	10	787	700	520	460	429	24.5	4	16-Φ23
		16	787		520	470	429	26.5	4	16-Φ28
16"	400	10	914	790	580	515	480	28	4	16-Φ28
		16	914		580	525	480	28	4	16-Φ31
18"	450	10	978	850	615	565	530	25.5	4	20-Φ28
		16	978		640	580	548	30	4	20-Φ31
20"	500	10	978	900	670	620	582	26.5	4	20-Φ28
		16	978		715	625	609	31.5	4	20-Φ34
24"	600	10	1295	1030	780	725	682	30	5	20-Φ31
		16	1295		840	770	720	36	5	20-Φ37

4.2 KV rates

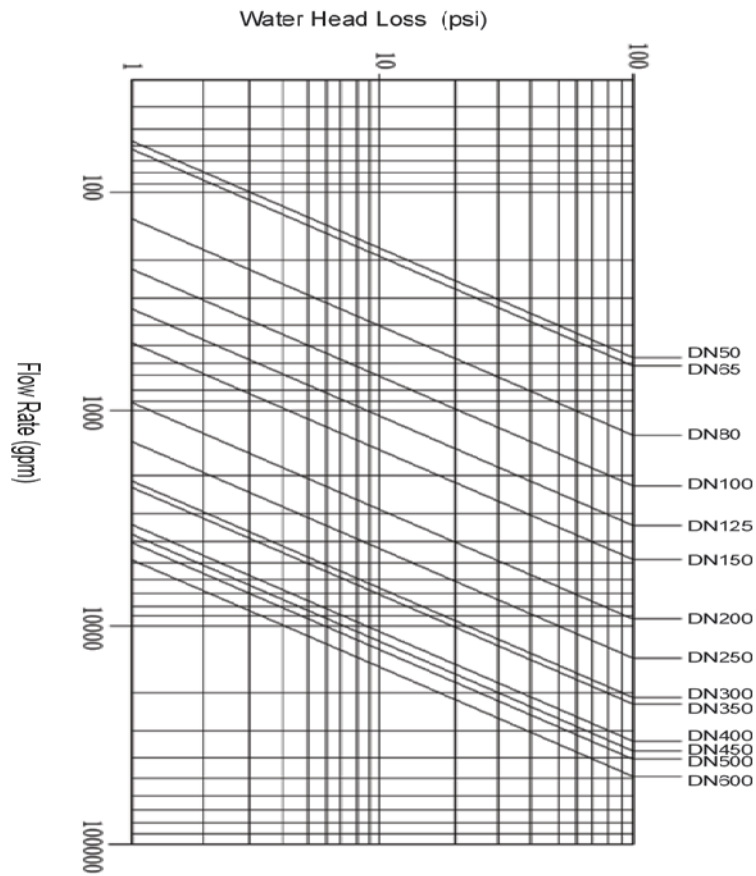
DN	50	65	80	100	125	150	200	250	300	350	400	450	500	600
Kv	41	53	105	175	285	402	730	1160	1400	1770	3010	3225	3395	4272

	NOMINAL PRESSURE (MPa)	INLET PRESSURE (MPa)	OUTLET PRESSURE (MPa)
PN10	1.0	1.0	0.2-0.8
PN16	1.6	1.6	0.2-1.2
PN25	2.5	2.5	0.2-1.6

The pressure reduction ratio should not exceed 3:1 to avoid cavitation, noise, and valve failure.

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5.0 REFERENCE MATERIALS

Approved certification for Pressure Reducing Valve

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