

VALVE

for General Application

**Y-STRAINER / CHECK VALVE /
GATE VALVE / AIRVENT / PRV**



Y TYPE STRAINER

SPECIFICATION

BOLTED COVER WITH BLOW-OFF DRAIN PLUG
STAINLESS STEEL PERFORATED SCREEN
FACE TO FACE DIMENSION CONFORMS TO ANSI B16.10
FLANGED END DRILLED TO ANSI B16.1

PRESSURE / TEMPERATURE RATINGS

Working Pressure	240 psi
Testing Pressure	1.5 times
Working Temperature	-10°C to 120°C
Suitable Media	Water & Oil

MATERIALS

Part	Material	ASTM
Body	Ductile Iron	A536 65-45-12
Cover	Ductile Iron	A536 65-45-12
Screen	Stainless Steel	A351-CF8
Blow-Off Plug	Stainless Steel	A351-CF8
Packing	EPDM	

STANDARD SCREENS

Size (mm)	Hole Dia. (mm)	Opening (%)
50 ~ 150	1.5	23
200 ~ 300	3.0	33
350 ~ 600	6.0	40

DIMENSIONS

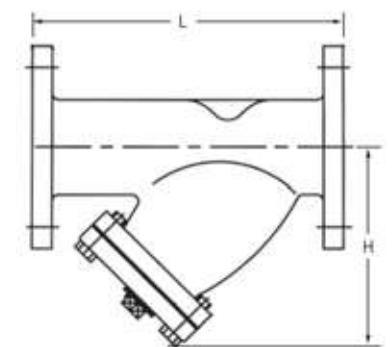
Unit: mm

Size	L (±2)	H (±10)	Plug Size (BSP)
50	225	135	15
65	273	155	15
80	292	175	15
100	352	209	15
125	420	248	15
150	470	287	15
200	543	380	20
250	660	425	20
300	762	505	20
350	946	630	20
400	1079	670	20
450	1168	740	20
500	1275	820	20
600	1300	970	20

Note:

- Design and specifications are subject to change without prior notice.

CYS-A
CLASS 125
2" ~ 18"



DUCTILE IRON Y TYPE STRAINER

SPECIFICATION

FLANGED END DRILLED TO BS EN1092-2 PN25

PRESSURE / TEMPERATURE RATINGS

Working Pressure	25bar
Testing Pressure	1.5 times
Working Temperature	-10°C to 120°C
Suitable Media	Water & Oil

MATERIALS

Part	Material	ASTM
Body	Ductile Iron	A536 65-45-12
Cover	Ductile Iron	A536 65-45-12
Screen	Stainless Steel	AISI304
Blow-Off Plug	Carbon Steel	
Packing	EPDM	

STANDARD SCREENS

Size (mm)	Hole Dia (mm)
50-150	1.50
200-300	3.00

DIMENSIONS

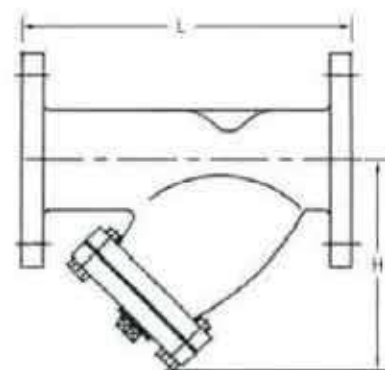
Unit: mm

Size	L	H	Plug Size BSP
50	230	160	15
65	290	180	15
80	310	215	15
100	350	235	15
125	400	275	15
150	480	305	15
200	600	390	20
250	730	540	20
300	850	680	20

Note:

1. Design and specifications are subject to change without prior notice.

DYS-B25
PN25



WAFER TYPE DUAL DOOR CHECK VALVE

SPECIFICATION

SUITABLE PN10/PN16, JIS10K & ANSI150 FLANGE MOUNTING
FACE-TO-FACE DIMENSION TO EN 558-1 SR. 16

PRESSURE / TEMPERATURE RATINGS

Working Pressure	16 bar
Testing Pressure	Shell : 1.5 times Seat : 1.1 times
Working Temperature	-20°C to 110°C (EPDM Seat) -10°C to 80°C (NBR Seat)
Suitable Media	Water & Oil

MATERIALS

Part	Material	BS EN *
Body	Cast Iron Ductile Iron	1561 GJL-250 1563 GJS- 400-18
Disc	Ductile Iron Aluminium Bronze Stainless Steel 304 Stainless Steel 316	1563 GJS- 400-18 1982 CC491K 10283 GX5CrNi19-10 10283 GX5CrNiMo19-11-2
Sear Ring	EPDM NBR	
Shaft	Stainless Steel 316	10088-3 X5CrNiMo17-12-2
Spring	Stainless Steel 316	ISO 6931-1 X5CrNiMo17-12-2
Bush	Resin	

* Indicates the corresponding equivalent standard material for ASTM.

DIMENSIONS

Unit: mm

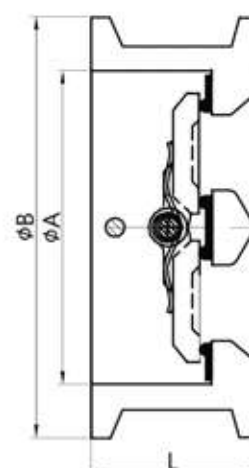
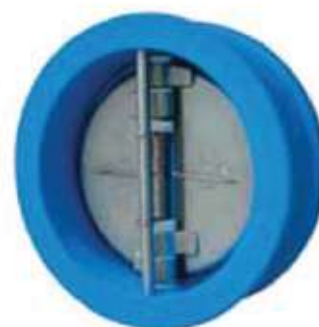
Size	L	A	B
50	43	65	101
65	46	80	121
80	64	94	131
100	64	117	156
125	70	145	187
150	76	170	217
200	89	224	267
250	114	265	328
300	114	310	375
350	127	360	420
400	140	410	483
450	152	450	538
500	152	505	593
600	178	624	697

Note:

- Design and specifications are subject to change without prior notice.

CDCV-W
DDCV-W
PN16

DN50~DN600



WAFER TYPE DUAL DOOR CHECK VALVE

SPECIFICATION

SUITABLE PN25 FLANGE MOUNTING
FACE-TO-FACE DIMENSION TO EN 558-1 SR. 16

PRESSURE / TEMPERATURE RATINGS

Working Pressure	25 bar
Testing Pressure	Shell : 1.5 times Seat : 1.1 times
Working Temperature	-10°C to 120°C (EPDM Seat) -10°C to 80°C (NBR Seat)
Suitable Media	Water & Oil

MATERIALS

Part	Material	BS EN *
Body	Ductile Iron	1563 GJS-500-7
Disc	Ductile Iron Aluminium Bronze Stainless Steel 304 Stainless Steel 316	1553 GJS-500-7 1982 CC491K 10283 GX5CrNi19-10 10283 GX5CrNiMo19-11-2
Seal Ring	EPDM NBR	
Shaft	Stainless Steel 316	10088-3 X5CrNi Mo17-12-2
Spring	Stainless Steel 316	ISO 6931-1 X5CrNiMo17-12-2
Bush	Resin	

* Indicates the corresponding equivalent standard material for BS EN.

DIMENSIONS

Unit: mm

Size	L	A	B
50	43	65	107
65	46	80	127
80	64	94	142
100	64	117	168
125	70	145	194
150	76	170	224
200	89	224	284
250	114	265	343
300	114	310	400

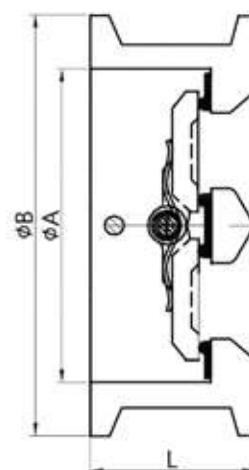
Note:

1. Design and specifications are subject to change without prior notice.

DDCV-WB25

PN25

DN50~DN300



DUCTILE IRON SILENT CHECK VALVE (WAFER TYPE)

SPECIFICATION

FOR ANSI 150 FLANGE MOUNTING

PRESSURE / TEMPERATURE RATINGS

Working Pressure	16bar
Testing Pressure	Shell : 1.5 times Seat : 1.1 times
Working Temperature	-20°C to 110°C EPDM -10°C to 80°C NBR
Suitable Media	Water, Oil

MATERIALS SPECIFICATION

Part	Material	ASTM SPEC
Body	Ductile Iron	A536 65-45-12
Disc	Stainless Steel	A351 CF8
	Bronze	B62 C83600
Seat	Stainless Steel	A351 CF8
	Bronze	B62 C83600
Seat Ring	EPDM / NBR	Commercial
Bushing	Bronze	B62 C83600
Spring	Stainless Steel	AISI 304

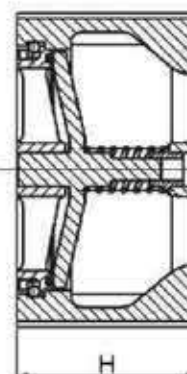
DIMENSIONS

Size mm	D mm	H mm
50	110	67
65	136	73
80	152	80
100	178	102
125	221	118
150	248	140
200	340	165
250	404	210
300	415	286
350	484	350

Note:

1. Design and specifications are subject to change without prior notice.

DSCV-WA



DUCTILE IRON SILENT CHECK VALVE (WAFER TYPE)

SPECIFICATION

FOR EN1092-2 PN25 FLANGE MOUNTING

PRESSURE / TEMPERATURE RATINGS

Working Pressure	25bar
Testing Pressure	Shell : 1.5 times Seat : 1.1 times
Working Temperature	-20°C to 110°C -10°C to 80°C
Suitable Media	Water, Oil

MATERIALS SPECIFICATION

Part	Material	ASTM SPEC
Body	Ductile Iron	A536 65-45-12
Disc	Stainless Steel	A351 CF8
	Bronze	B62 C83600
Seat	Stainless Steel	A351 CF8
	Bronze	B62 C83600
Seat Ring	EPDM / NBR	Commercial
Bushing	Bronze	B62 C83600
Spring	Stainless Steel	AISI 304

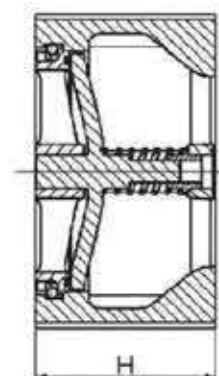
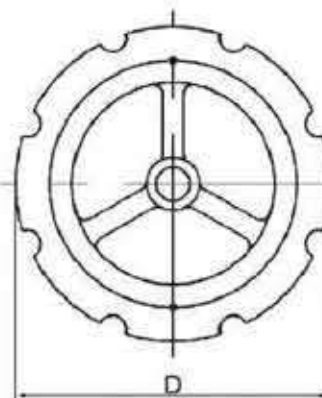
DIMENSIONS

Size mm	D mm	H mm
50	110	67
65	136	73
80	152	80
100	178	102
125	221	118
150	248	140
200	340	165
250	404	210
300	415	286
350	484	350

Note:

1. Design and specifications are subject to change without prior notice.

DSCV-WA PN25



SILENT CHECK VALVE

SPECIFICATION

FOR ANSI 150 FLANGE MOUNTING

PRESSURE / TEMPERATURE RATINGS

Working Pressure	16bar
Testing Pressure	Shell : 1.5 times Seat : 1.1 times
Working Temperature	-20°C to 110°C -10°C to 80°C
Suitable Media	Water, Oil

MATERIALS SPECIFICATION

Part	Material	ASTM Spec
Body	Cast Iron	A126 Class B
	Ductile Iron	A536 65-45-12
Disc	Ductile Iron	A535 65-45-12
	Stainless Steel	A351 CF8
	Bronze	B62 C83600
Seat	Stainless Steel	A351 CF8
	Bronze	B62 C83600
Seat Ring	EPDM / NBR	Commercial
Bushing	Bronze	B62 C83600
Spring	Stainless Steel	AISI 304

DIMENSIONS

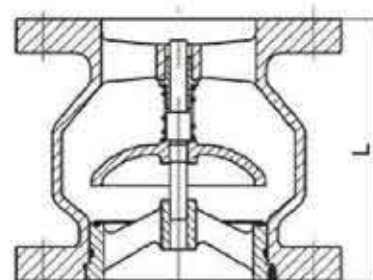
Unit: mm

Size	L	Size	L
50	133	250	393
65	140	300	362
80	152	350	400
100	185	400	448
125	216	450	376
150	229	500	524
200	257	600	610

Note:

1. Design and specifications are subject to change without prior notice.

GSCV-F



SILENT CHECK VALVE

SPECIFICATION

FOR EN1092-2 PN25 FLANGE MOUNTING

PRESSURE / TEMPERATURE RATINGS

Working Pressure	25bar
Testing Pressure	Shell : 1.5 times Seat : 1.1 times
Working Temperature	-20°C to 110°C -10°C to 80°C
Suitable Media	Water, Oil

MATERIALS SPECIFICATION

Part	Material	ASTM Spec
Body	Cast Iron	A126 Class B
	Ductile Iron	A536 65-45-12
Disc	Ductile Iron	A535 65-45-12
	Stainless Steel	A351 CF8
	Bronze	B62 C83600
Seat	Stainless Steel	A351 CF8
	Bronze	B62 C83600
Seat Ring	EPDM / NBR	Commercial
Bushing	Bronze	B62 C83600
Spring	Stainless Steel	AISI 304

DIMENSIONS

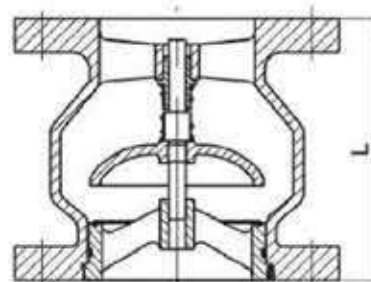
Unit: mm

Size	L	Size	L
50	133	250	393
65	140	300	362
80	152	350	400
100	185	400	448
125	216	450	376 476
150	229	500	524
200	257	600	610

Note:

1. Design and specifications are subject to change without prior notice.

GSCV-F PN25



SWING CHECK VALVE

SPECIFICATION

FACE TO FACE DIMENSION CONFORMS TO ANSI B16.10
FLANGED END DRILLED TO ANSI B16.1

PRESSURE / TEMPERATURE RATINGS

Working Pressure	240 psi
Testing Pressure	Shell: 1.5 times Seat: 1.1 times
Working Temperature	-10°C to 120°C
Suitable Media	Water & Oil

MATERIALS

Part	Material	ASTM
Body	Ductile Iron	A536 65-45-12
Disc	Ductile Iron	A536 65-45-12
Cover	Ductile Iron	A536 65-45-12
Seat Ring	Brass	B16 C36000
Disc Ring	Brass	B16 C36000

DIMENSIONS

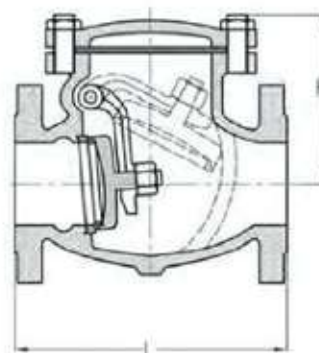
Unit: inch

Size	L	H
2	8.0	5.0
2½	8.5	5.9
3	9.5	6.5
4	11.5	7.0
5	13.0	8.1
6	14.0	8.7
8	19.5	9.8
10	24.5	12.0
12	27.5	15.9

Note:

- Design and specifications are subject to change without prior notice.

CCV-A CLASS 125 2" ~ 12"



RIISING STEM GATE VALVE

SPECIFICATION

RIISING STEM, OUTSIDE SCREW AND YOKE
FACE TO FACE DIMENSION CONFORMS TO ANSI B16.10
FLANGED END DRILLED TO ANSI B16.1

PRESSURE / TEMPERATURE RATINGS

Working Pressure	240 psi
Testing Pressure	Shell: 1.5 times Seat: 1.1 times
Working Temperature	-10°C to 150°C
Suitable Media	Water & Oil

MATERIALS

Part	Material	ASTM
Body	Ductile Iron	A536 65-45-12
Bonnet	Ductile Iron	A536 65-45-12
Disc	Ductile Iron	A536 65-45-12
Seat	Brass	B16 C63000
Stem	Stainless Steel 420	AISI 420
Packing	Graphite	Non-Asbestos
Handwheel	Ductile Iron	A536 65-45-12

DIMENSIONS

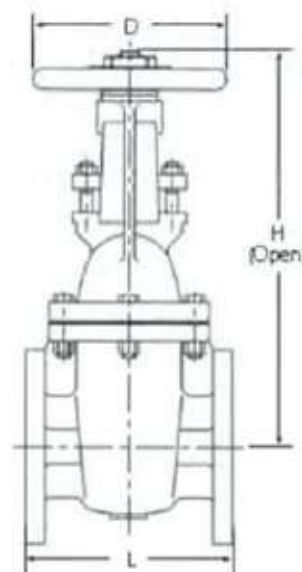
Unit: inch

Size	L	H	D
1½	6.5	12.0	6.3
2	7.0	12.8	6.3
2½	7.5	14.4	6.3
3	8.0	17.4	7.9
4	9.0	20.2	7.9
5	10.0	23.7	9.8
6	10.5	28.3	9.8
8	11.5	36.3	11.8
10	13.0	43.9	13.8
12	14.0	53.0	13.8
14	15.0	61.4	18.7
16	16.0	68.5	18.7

Note:

- Design and specifications are subject to change without prior notice.

R-CGV-A Class 125 1½"~16"



DUCTILE IRON RISING STEM GATE VALVE

SPECIFICATION

RISING STEM • FACE TO FACE DIMENSION TO BS5163
FLANGE END DRILLED TO BS4504

PRESSURE / TEMPERATURE RATINGS

Working Pressure	25 bar
Testing Pressure	Shell : 37.5 bar Seat : 27.5 bar
Working Temperature	-15°C to 150°C
Suitable Media	water, oil & steam

MATERIALS

Part	Material	BS
Body	Ductile Iron	1563 GJS-450-10
Bonnet	Ductile Iron	1563 GJS-450-10
Disc	Ductile Iron	1563 GJS-450-10
Seat Ring	Cast Brass	CW612N
Stem	Stainless Steel(SS410)	10088-3x12 Cr13
Packing	Graphite	-
Handwheel	Ductile Iron	1563 GJS-450-10

DIMENSIONS

Size mm	L mm	H (open) mm	D mm
50	178	330	180
65	190	350	180
80	203	440	200
100	230	520	200
125	254	625	250
150	267	703	250
200	292	952	300
250	330	1150	350
300	356	1214	350

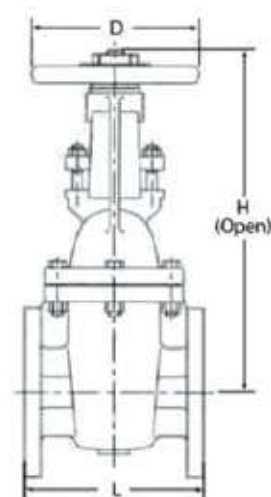
Note:

1. Other flange standards available upon request.
2. If used for gas application, please consult our sales office.
3. Design and specification are subject to change without prior notice.

R-CGV-B25

PN25

DN50~DN300



IRON GATE VALVE

SPECIFICATION

NON-RISING STEM, INSIDE SCREW
DIN 3352 DESIGN, FLANGED TO DIN 2532/2533 PN10/16
FACE-TO-FACE DIMENSION CONFORMS TO DIN3202 F4 SERIES

PRESSURE / TEMPERATURE RATINGS

Working Pressure	16 bar
Testing Pressure	Shell: 24 bar Seat: 17.6 bar
Working Temperature	-10°C to 80°C
Suitable Media	Water & Oil

MATERIALS

Part	Material	DIN
Body	Cast Iron (DN50~DN125)	1691 GG25
	Ductile Iron (DN50~DN300)	1693 GGG50
Bonnet	Cast Iron (DN50~DN125)	1691 GG25
	Ductile Iron (DN50~DN300)	1693 GGG50
Disc	Cast Iron (DN50~DN125)	1691 GG25
	Ductile Iron (DN50~DN300)	1693 GGG50
Seat Ring	Brass	17660 CuZn39Pb3
Stem	Stainless Steel	17440x20Cr13
Packing	Graphite	Non-Asbestos
Handwheel	Ductile Iron	1693 GGG50

DIMENSIONS

Unit: mm

Size	L	H	D
50	150	254	150
65	170	273	150
80	180	330	210
100	190	375	210
125	200	423	250
150	210	494	250
200	230	550	300
250	250	652	320
300	270	772	350

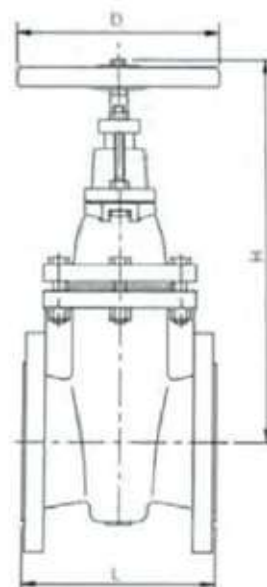
Note:

1. JIS10K, ANSI150# or PN10 flange standard are available upon request.
2. Design and specifications are subject to change without prior notice.

IGV-D

PN16

DN50~DN300



CAST IRON GLOBE VALVE

SPECIFICATION

RIISING STEM • OUTSIDE SCREW AND YOKE
MSS SP-85 • FLANGED TO ANSI CLASS 125

PRESSURE / TEMPERATURE RATINGS

Working Pressure	200 psi
Testing Pressure	Shell : 350 psi Seat : 220 psi
Working Temperature	14°F to 248°F
Suitable Media	Water, Oil & Gas

MATERIALS

Part	Material	ASTM
Body	Cast Iron	A126 Class B
Bonnet	Cast Iron	A126 Class B
Disc	Gunmetal	B62 83600
Seat Ring	Gunmetal	B62 83600
Stem	Brass Stainless Steel	B16 C36000 AISI 420
Packing	Graphite	Non-Asbestos
Handwheel	Cast Iron	A126 Class B

DIMENSIONS

Size Inch	L Inch	H (Open) Inch	D Inch
2	8	3.2	7
2-1/2	8.5	12.9	7
3	9.5	13.5	8
4	11.5	15.2	10
5	13	16.6	12
6	14	20	12
8	19.5	22.8	13.7
10	24.5	26.9	16
12	27.5	33.6	18

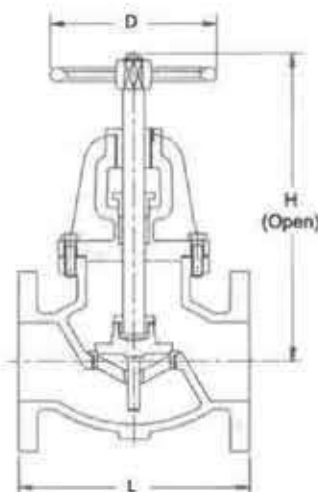
Note:

1. JIS B2239 10K and other flange standards available upon request.
2. If used for gas application, please consult our sales office.
3. Design and specifications are subject to change without prior notice.

CGLV-A

Class 125

2"-12"



AUTOMATIC AIR VENT

SPECIFICATION

THREADED TO BS 21 (ISO 7)

PRESSURE / TEMPERATURE

Model	CAAV-B	DAAV-B25
Working Pressure	16 bar	25 bar
Test Pressure	24 bar	37.5 bar
Working Temperature	-10°C to 120°C	
Suitable Media	Water	

Note: Minimum working pressure: 2bar

MATERIALS

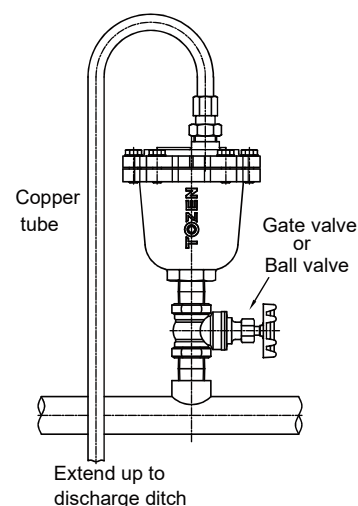
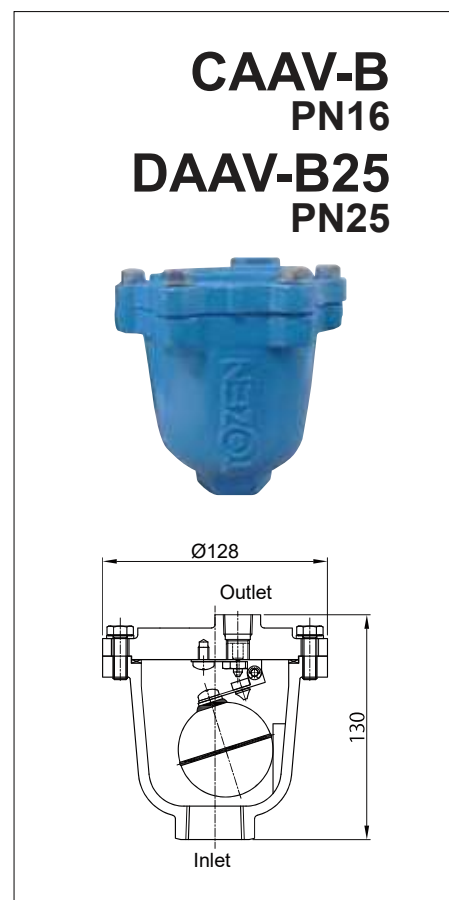
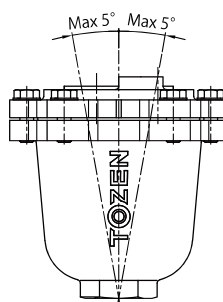
Part	Material	BS EN *
Body	Ductile iron	1563-GJS-450-10
Cover	Ductile iron	1563-GJS-450-10
Seat	Brass	12164 CW603N
Float	Stainless steel	10088-2 X5CrNi18-10
Float arm	Stainless steel	10088-2 X5CrNi18-10
Gasket	EPDM	-
Disc	Silicon rubber	-

*: Indicates the corresponding equivalent standard materials for BS EN.

DIMENSIONS

Size	Inlet	Outlet	Orifice mm
15A	PT 1/2	PT 3/8	1.6
20A	PT 3/4	PT 3/8	
25A	PT 1	PT 3/8	

STRUCTURE



Installation guide:

1. Air vent shall be installed vertically with allowance of within 5° from the horizontal pipe line.
2. Install a gate valve or ball valve at the inlet for maintenance purposes.
3. A copper tube to be connected from the outlet of the air vent up to drainage ditch, to prevent any leakage of the water, if any.
4. Insulate the air vent and gate valve / ball valve to prevent condensation.

Note: Design and specifications are subject to change without prior notice.

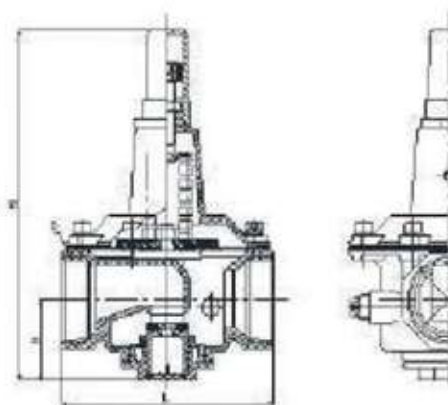
PRESSURE REDUCING VALVE

FEATURE

- Even if there is a pressure fluctuation on the inlet side, stable decompression operation can be obtained with almost no effect on the set pressure.
- Since the secondary pressure directly operates the valve body, hunting hardly occurs, the internal structure is simple, and there are almost no troubles.

SPECIFICATION

MODEL		M-PRV-S
Sizes (mm)		20~50
Application Fluid		Water, Warm Water
Fluid Temperature		5~60°C
Applicable Inlet Pressure		Under 1.6MPa
Max. Pressure Reduction Ratio		10 : 1
Connection		PT
Material	Body	SCS13A
	Main Part	Bonnet etc. : SCS13A. Diaphragm. Ring : NBR



DIMENSIONS

Unit: mm

Nominal size	D	L	H	h
20	Rc3/4	96	175.5	42.5
25	Rc1	103	182	43
32	Rc1-1/4	111	191	45.5
40	Rc1-1/2	123	193	44.5
50	Rc2	170	219	63.5

M-PRV-S

PN-16

DN20~DN50

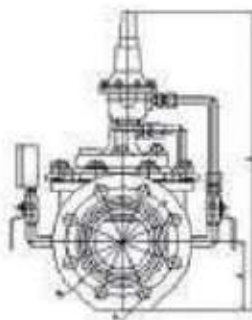
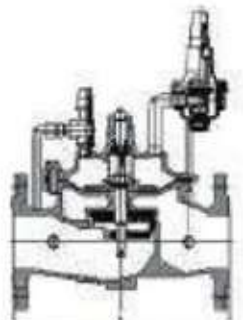
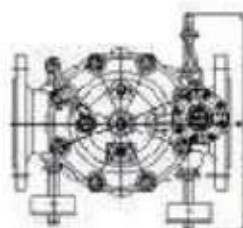


PRESSURE REDUCING VALVE FOR LARGE CAPACITY

TOZEN PRV-CPR is a pilot-controlled hydraulic-operated pressure reducing valve suitable for various applications. TOZEN PRV-CPR valves reduce and maintain a lower constant downstream pressure disregard a higher and fluctuating upstream.

SPECIFICATION

MODEL		PRV-CPR
Sizes (mm)		65~150
Application Fluid		Water, Warm Water
Fluid Temperature		5~60°C
Applicable Inlet Pressure		Under 1.6MPa
Max. Pressure Reduction Ratio		10 : 1
Flange Connection		ISO7005/EN1092/ BS4504-PN16 RF
Material	Body	FCD450
	Seat	SCS13A
	Diaphragm, Shield Ring	NBR



DIMENSIONS

Unit: mm

Nominal size	L	H	h	W	C	S	weight (kg)
65	290	-432	92.5	-335	145	4-φ19	20.5
80	310	-442	100	-344	160	8-φ19	24
100	350	-476	110	-355	180	8-φ19	32.5
125	400	-511	125	-390	210	8-φ19	45
150	480	-586	145	-430	240	8-φ22	60.5

PRV-CPR PN-16 DN65~DN150





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