

PRODUCT INTRODUCTION

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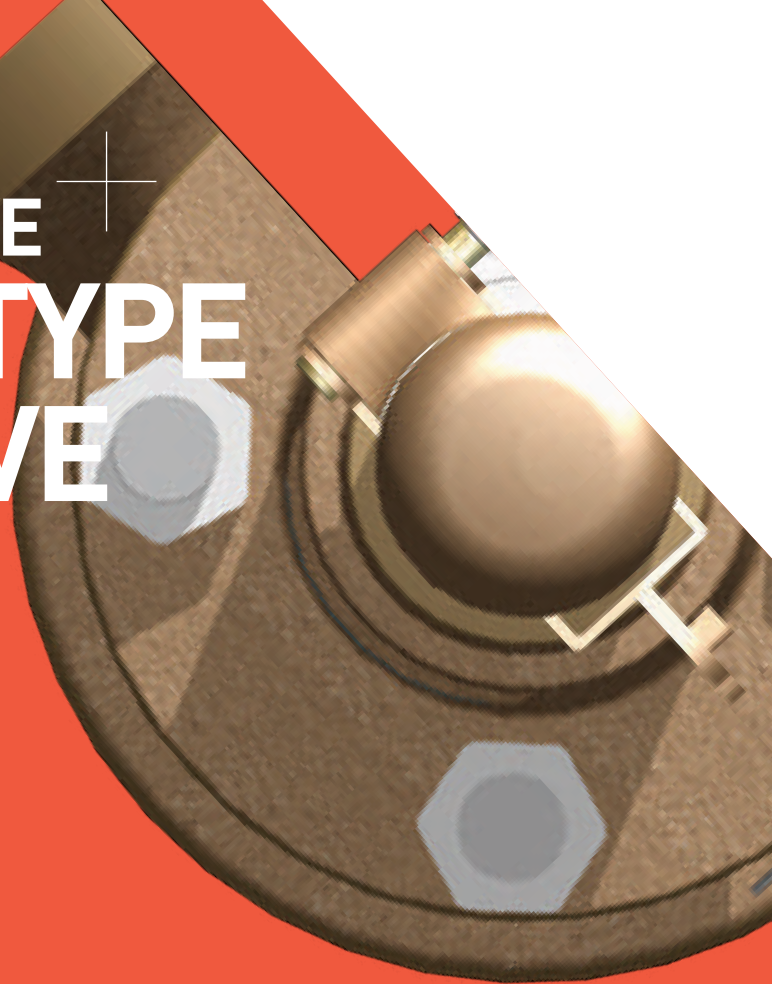
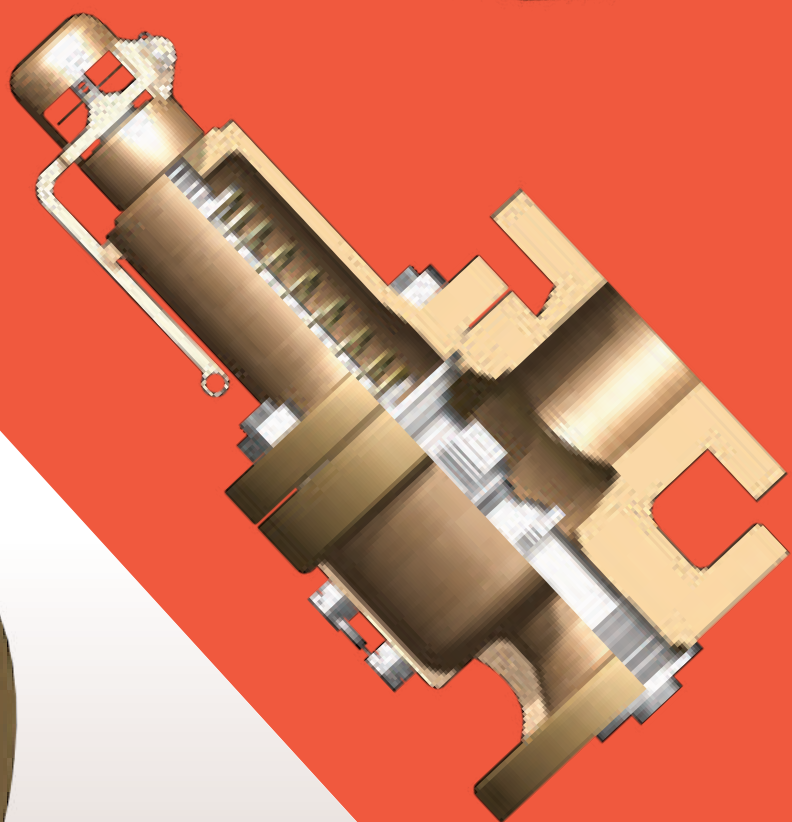
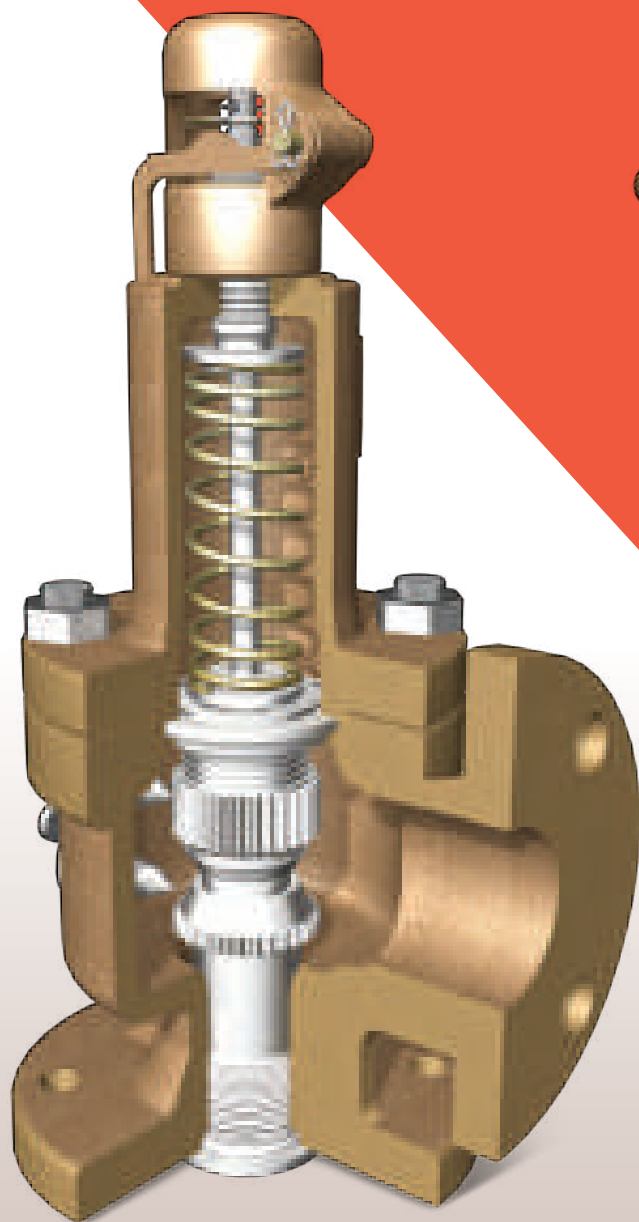
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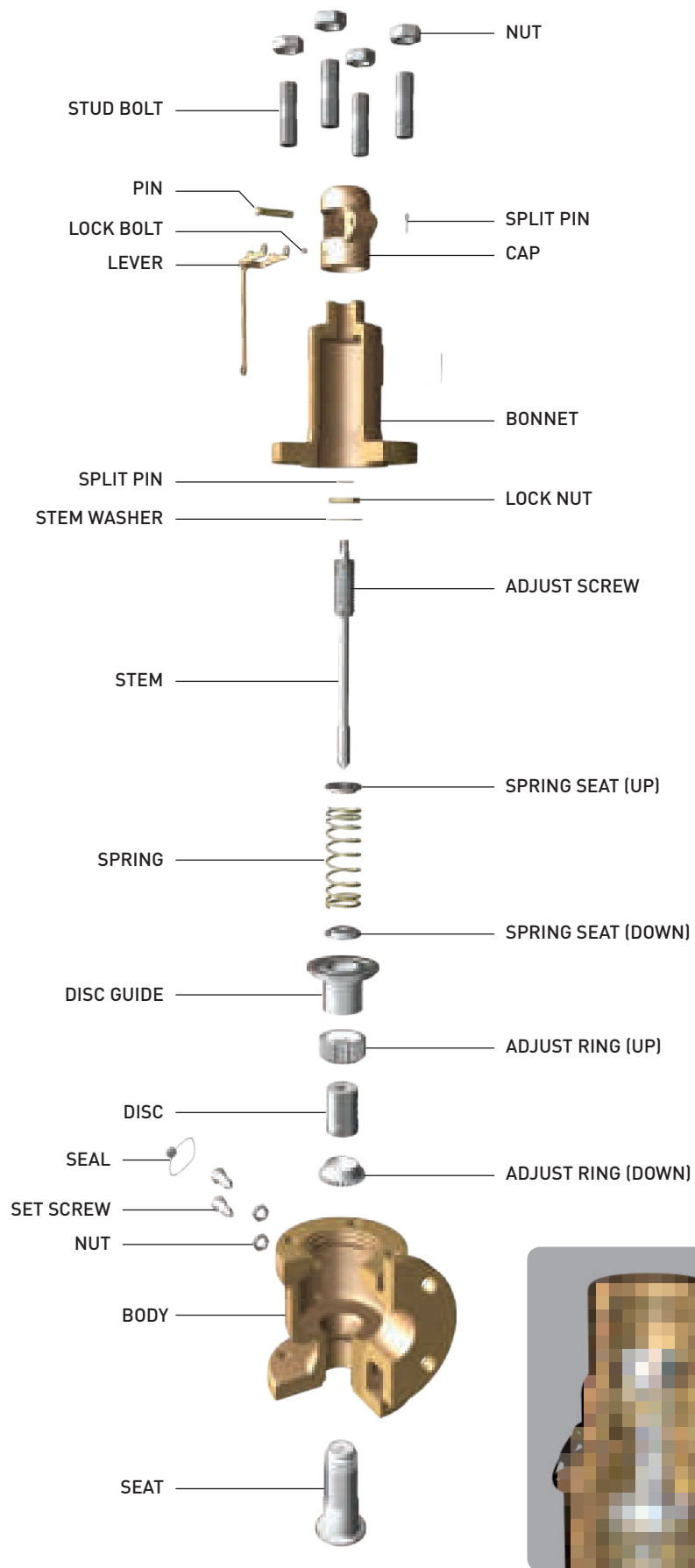
SAFETY RELIEF VALVE + FULL BORE TYPE SAFETY VALVE

- PART LIST FOR FULL BORE TYPE SAFETY VALVE
- DIMENSION LIST FOR FULL BORE TYPE SAFETY VALVE



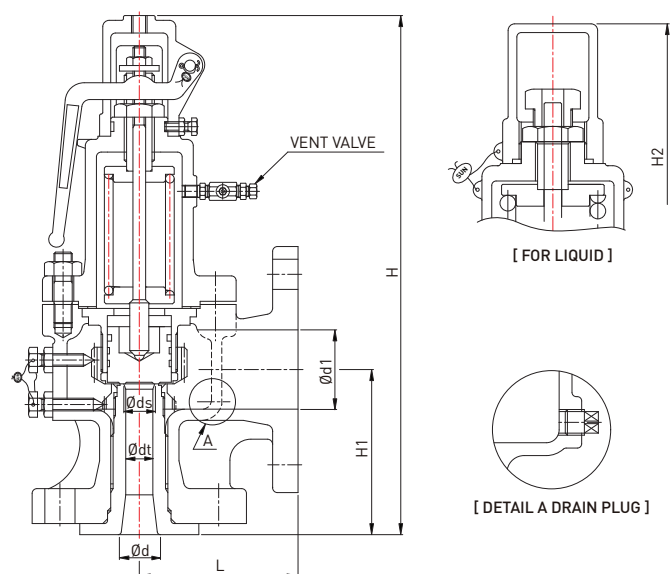
FULL BORE TYPE SAFETY VALVE

PART LIST FOR FULL BORE TYPE SAFETY VALVE



DIMENSION LIST

FULL BORE TYPE SAFETY VALVE (MODEL : SPSF-1F/2F/3F)



SPECIFICATION

Model		SPSF-1F		SPSF-2F		SPSF-3F	
Type		LEVER	NO LEVER	LEVER	NO LEVER	LEVER	NO LEVER
Working Fluid		Steam, Air	Water, Oil	Steam, Air	Water, Oil	Steam, Air	Water, Oil
Setting Pressure (kgf/cm ²)		0.35 ~ 11		0.35 ~ 22		22 ~ 33	
Working Temperature		MAX. 220℃		MAX. 250℃		MAX. 250℃	
Material	Body	Ductile Cast Iron / Cast Steel / Cast Bronze		Cast Steel		Cast Steel	
	Trim	Stainless Steel		Stainless Steel		Stainless Steel	
Connection		JIS Flanged		JIS Flanged ANSI Flanged		JIS Flanged ANSI Flanged	

DIMENSION

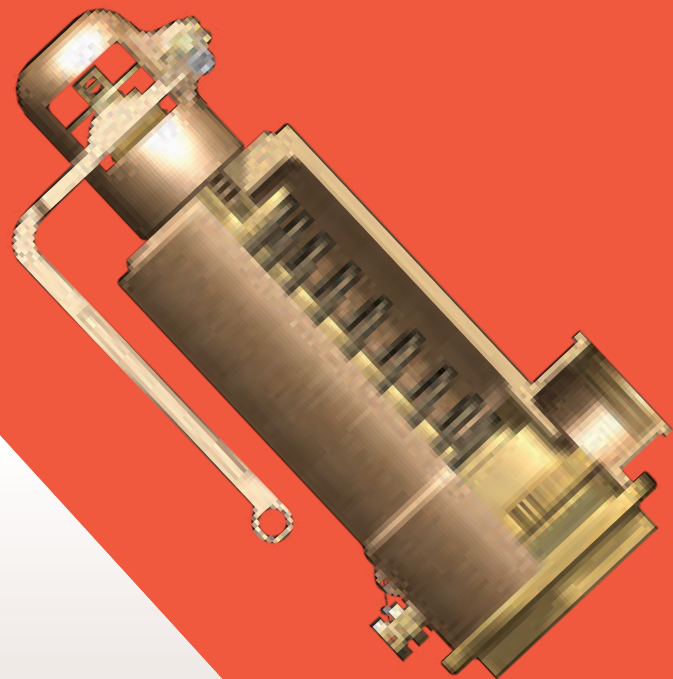
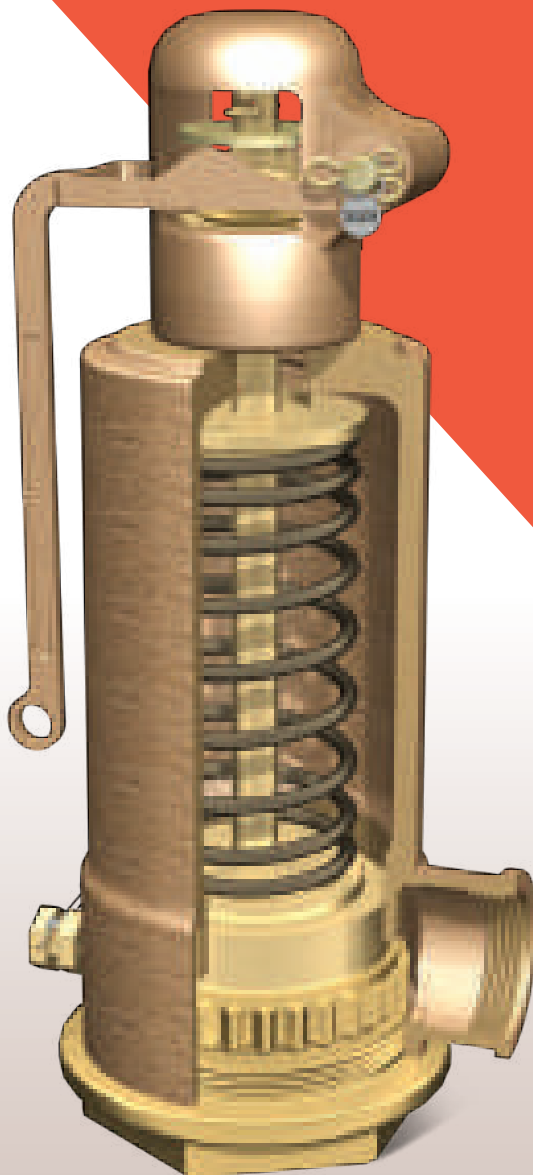
UNIT(mm)

SIZE Ød×Ød1	Ødt	Øds	L	H1	H	H2	INLET FLANGE (RF)	OUTLET FLANGE (FF)
15×25	11.5	14.5	95	85	282	280	1F : JIS 10K, JIS 16K, ANSI150#, PN10, PN16 2F : JIS 20K, ANSI 300#, PN25 3F : JIS 30K, PN40	1F : JIS 10K, JIS 16K, ANSI150#, PN10, PN16 2F : JIS 20K, ANSI 300#, PN25 3F : JIS 30K, PN40
20×25	15	17.5	95	85	282	280		
25×40	19	22	100	105	320	318		
25×50	19	22	100	105	320	318		
32×65	30	35	115	123	380	375		
40×50	30	35	115	123	380	375		
40×65	30	35	115	123	380	375		
50×80	38	44	128	130	476	450		
65×100	49	57	145	150	547	515		
80×100	49	57	145	150	547	515		
80×125	61	71	162	168	598	565		
100×150	76	88	190	197	725	713		
125×200	95	114	225	232	895	865		
150×200	115	133	225	230	953	918		
200×250	150	175	270	270	1084	1080		

SAFETY RELIEF VALVE LOW LIFT TYPE SAFETY VALVE

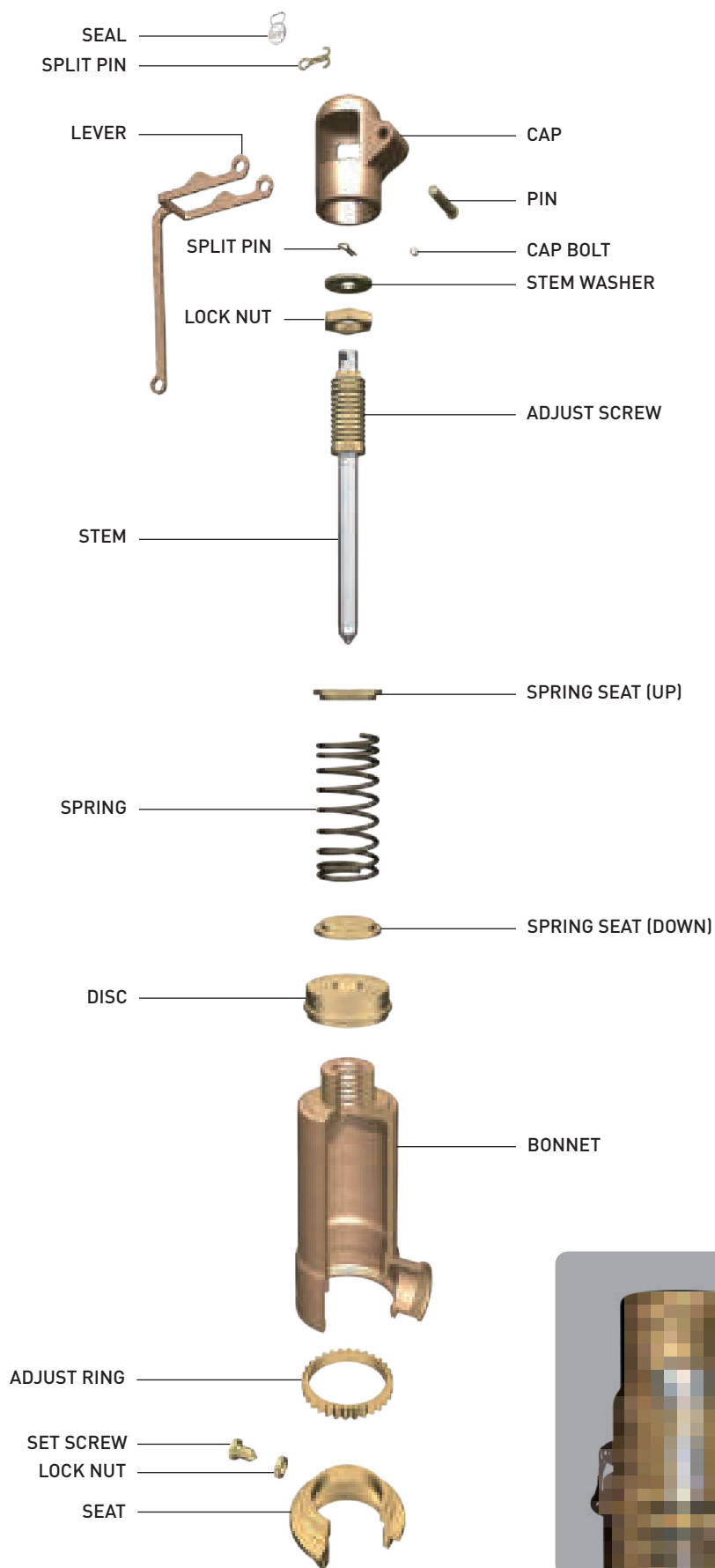
- PART LIST FOR LOW LIFT TYPE SAFETY VALVE
- DIMENSION LIST FOR LOW LIFT TYPE SAFETY VALVE

SAFETY RELIEF VALVE



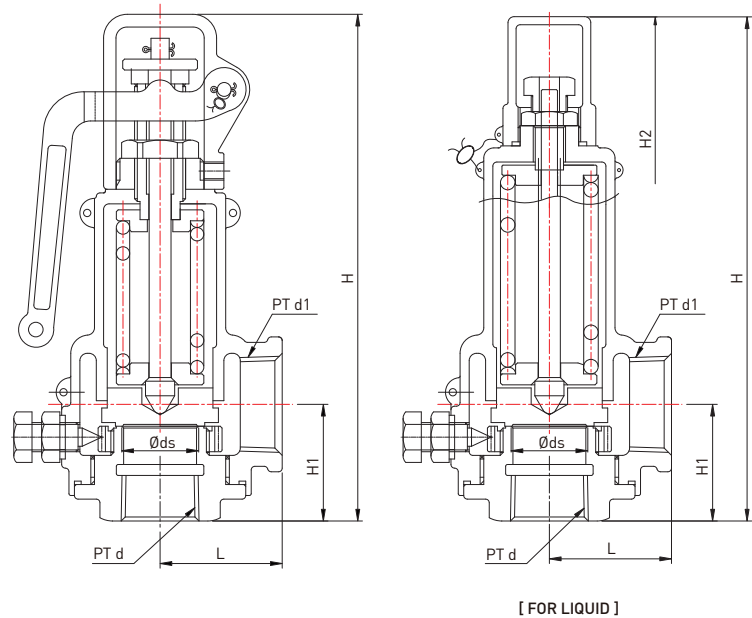
LOW LIFT TYPE SAFETY VALVE

PART LIST FOR LOW LIFT TYPE SAFETY VALVE



DIMENSION LIST

LOW LIFT TYPE
SAFETY VALVE
(MODEL : SPSL-1S)



SPECIFICATION

Type	LEVER		NO LEVER
Working Fluid	Steam, Air		Water, Oil
Setting Pressure (kgf/cm²)	0.35 ~ 11		
Working Temperature	MAX. 220℃		
Material	Body & Bonnet	Cast Bronze	
	Trim	Forged Brass	
Connection	PT Screwed		

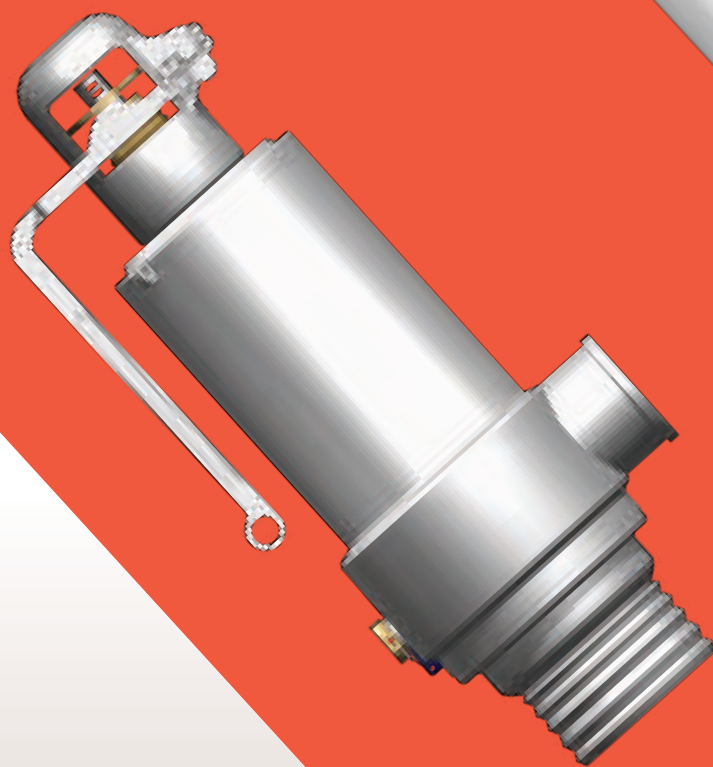
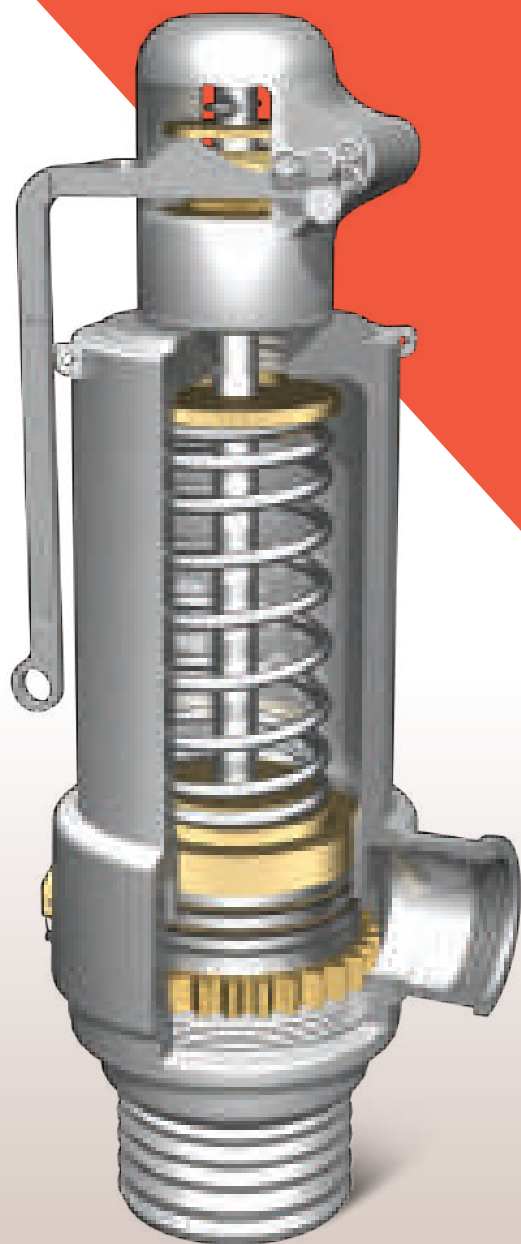
DIMENSION

UNIT(mm)

SIZE	Øds	L	H1	H	H2	PT d	PT d1
15A	21.0	37.0	32	149	142	1/2"	3/4"
20A	21.0	37.0	32	149	142	3/4"	3/4"
25A	26.0	43.0	38	155	157	1"	1"
32A	33.0	45.0	49	177	170	1 1/4"	1 1/4"
40A	41.0	55.0	52	212	189	1 1/2"	1 1/2"
50A	51.0	65.0	62	232	206	2"	2"

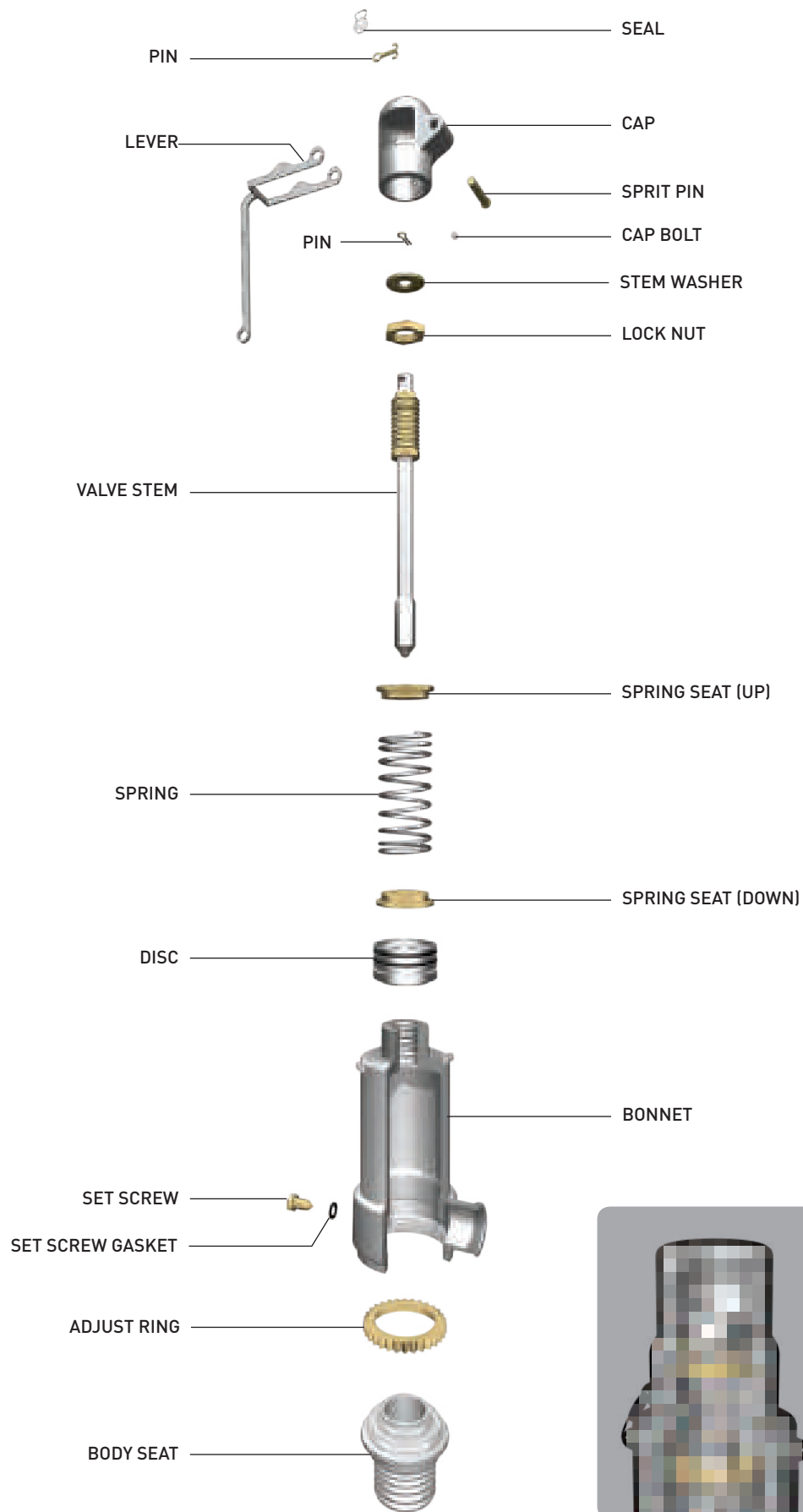
SAFETY RELIEF VALVE HIGH LIFT TYPE SAFETY VALVE

- PART LIST FOR HIGH LIFT TYPE SAFETY VALVE
- DIMENSION LIST FOR HIGH LIFT TYPE SAFETY VALVE



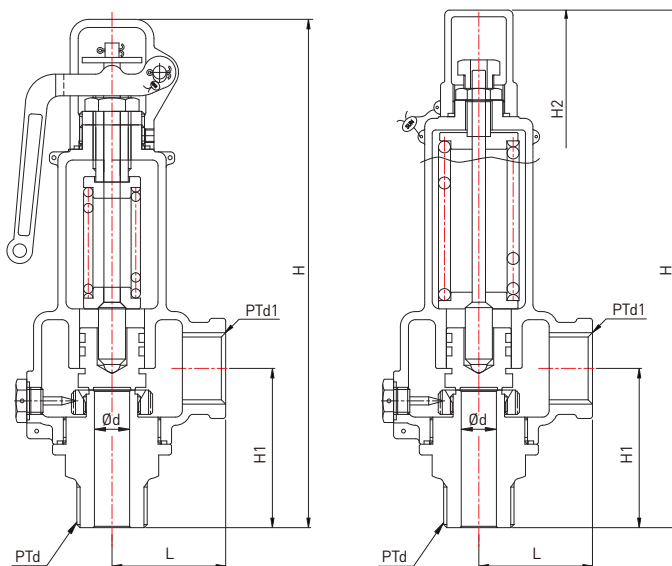
HIGH LIFT TYPE SAFETY VALVE

PART LIST FOR HIGH LIFT TYPE SAFETY VALVE



DIMENSION LIST

HIGH LIFT TYPE SAFETY VALVE (MODEL : SPSH-3S)



[FOR LIQUID]

SPECIFICATION

Type	LEVER		NO LEVER
Working Fluid	Steam, Air		Water, Oil
Setting Pressure (kgf/cm²)	0.35 ~ 33		
Working Temperature	MAX. 220℃		
Material	Body	Stainless Steel	
	Bonnet	Cast Bronze	
	Trim	Stainless Steel	
Connection	PT Screwed		

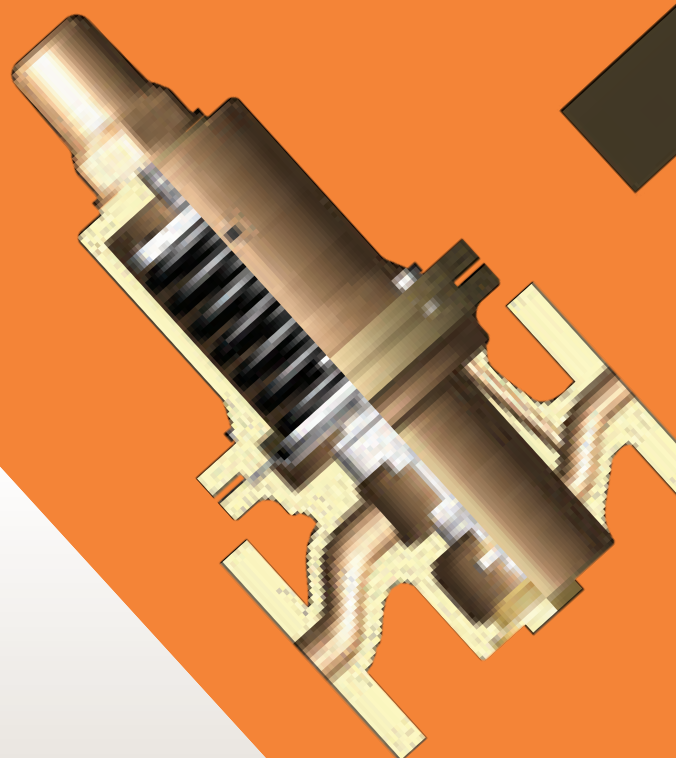
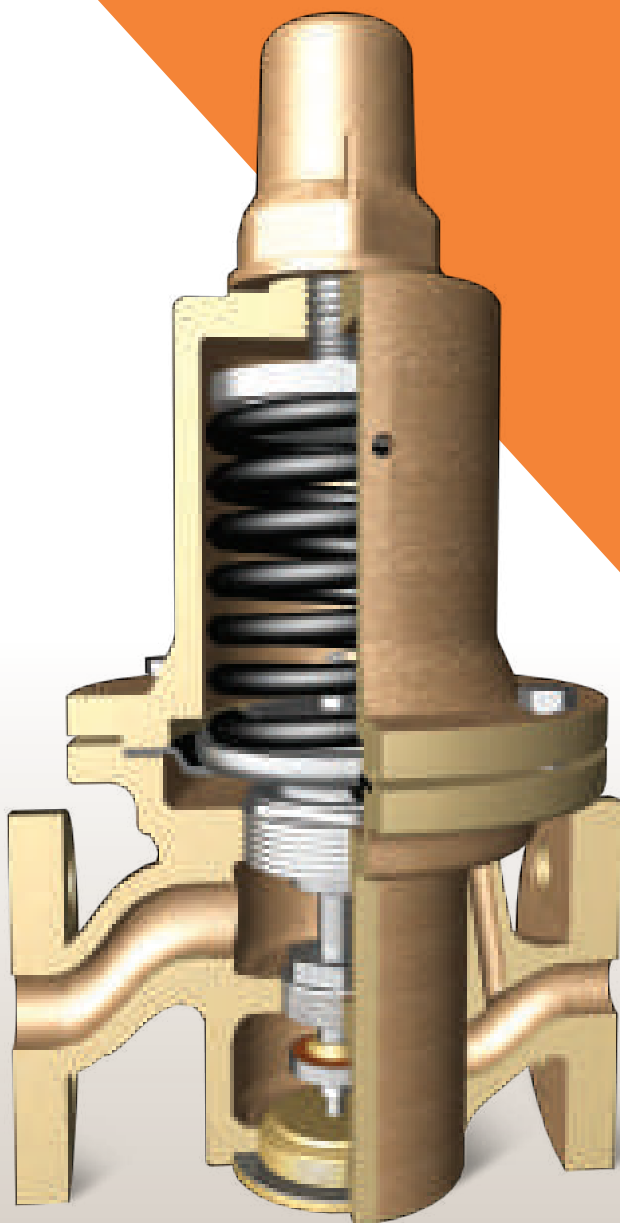
DIMENSION

UNIT(mm)

SIZE	Ød	L	H1	H	PT d	PT d1
15A	13.0	42.0	62.0	191.0	1/2"	3/4"
20A	13.0	42.0	64.0	193.0	3/4"	3/4"
25A	18.0	44.0	70.0	211.0	1"	1"
32A	23.0	44.0	70.0	199.0	1 1/4"	1 1/4"
40A	26.0	55.0	76.0	227.0	1 1/2"	1 1/2"
50A	32.0	65.0	91.0	251.0	2"	2"

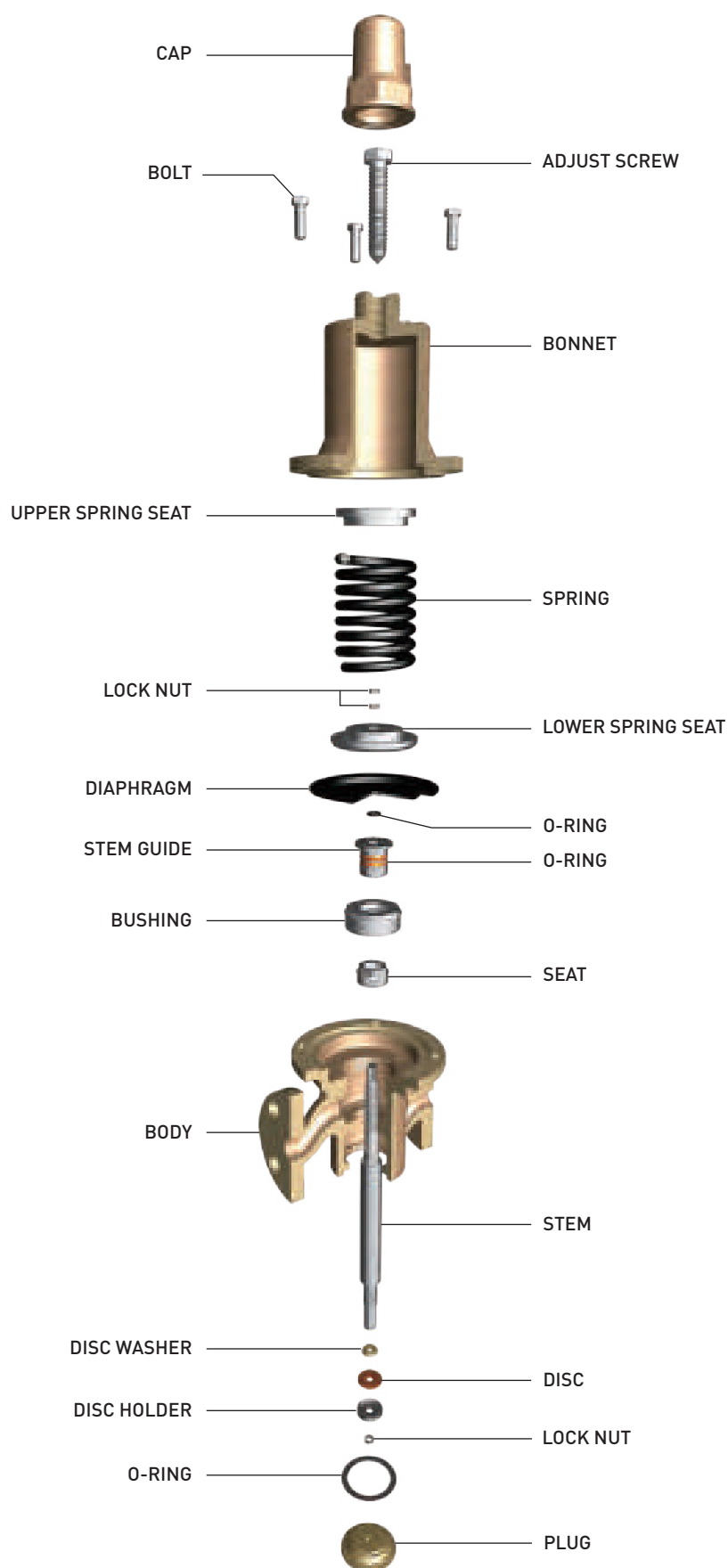
PRESSURE REDUCING & REGULATING VALVE PRESSURE REDUCING VALVE

- PART LIST FOR PRESSURE REDUCING VALVE
- DIMENSION LIST FOR PRESSURE REDUCING VALVE



PRESSURE REDUCING VALVE

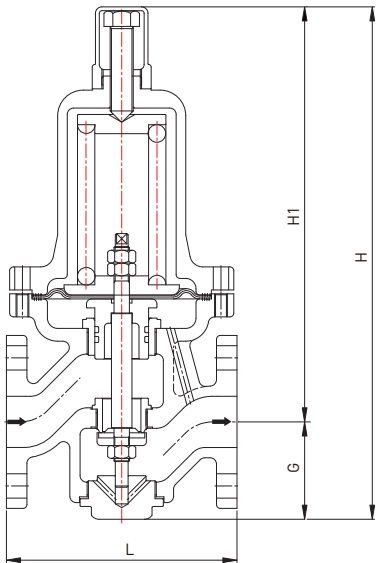
PART LIST FOR PRESSURE REDUCING VALVE



DIMENSION LIST

PRESSURE REDUCING VALVE

(MODEL : SPRD-1F)



SPECIFICATION

Inlet Pressure (kgf/cm ²)	10	
Outlet Pressure (kgf/cm ²)	0.35 ~ 8	
Max Reducing Ratio	10 : 1	
Working Temperature	MAX. 80°C	
Working Fluid	Water, Air	
Connection	JIS 10K Flanged	
Material	Body	Ductile Cast Iron / Cast Steel / Cast Bronze
	Trim	Stainless Steel, Synthetic Rubber

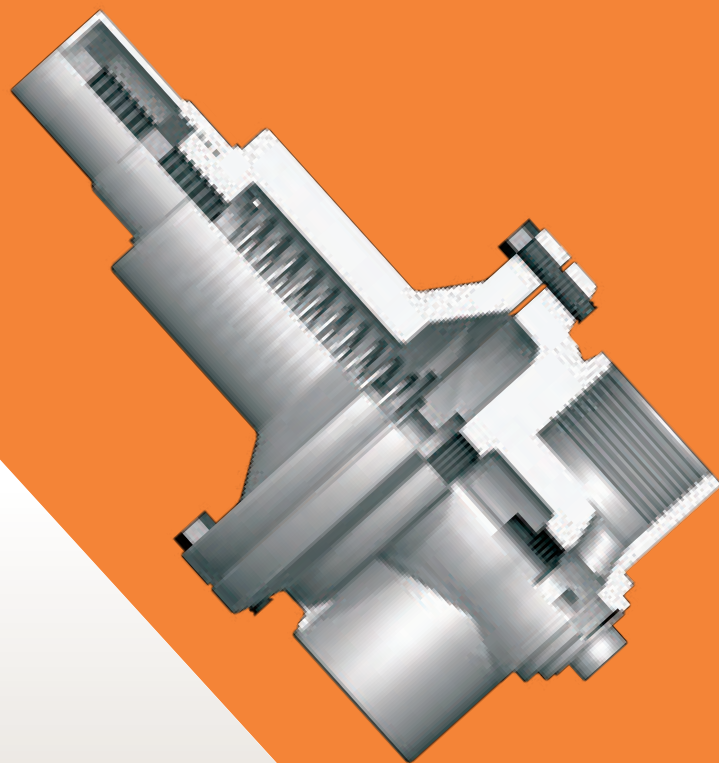
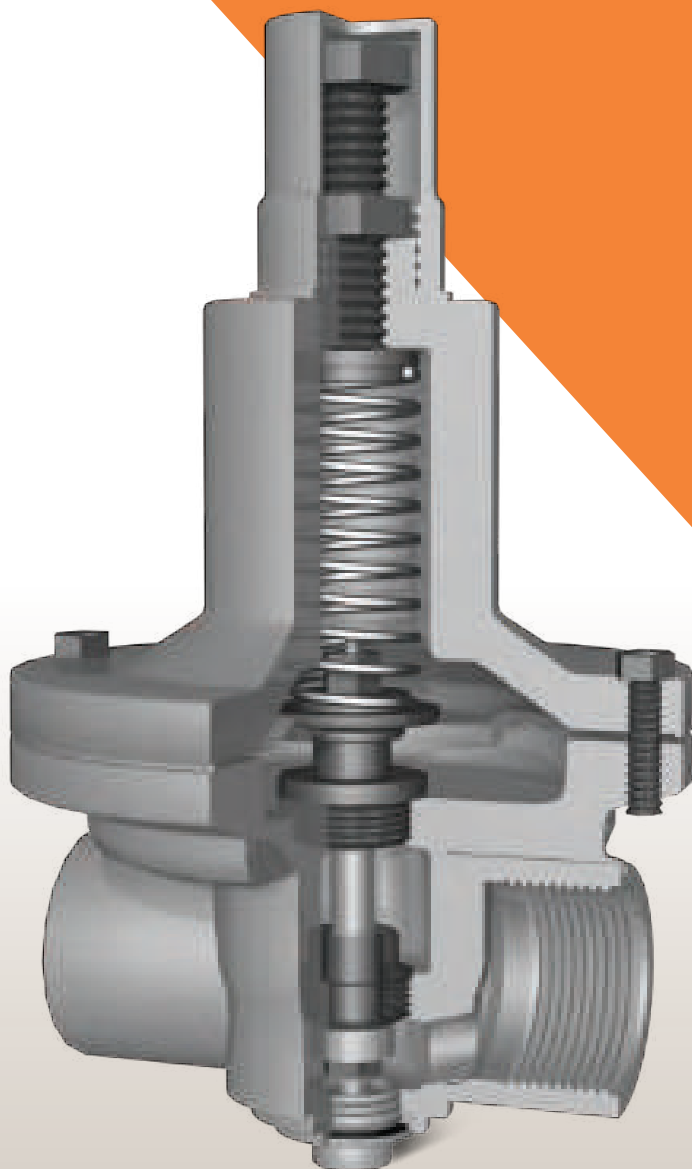
DIMENSION

UNIT(mm)

SIZE	L	G	H	H1	CONNECTION
15A	160	62	317	255	JIS 10K, 16K, FF ANSI 150# PN 10B, PN16B
20A	160	62	317	255	
25A	160	62	328	266	
32A	180	70	405	335	
40A	180	70	405	335	
50A	190	75	420	345	
65A	230	100	505	405	
80A	250	100	520	420	

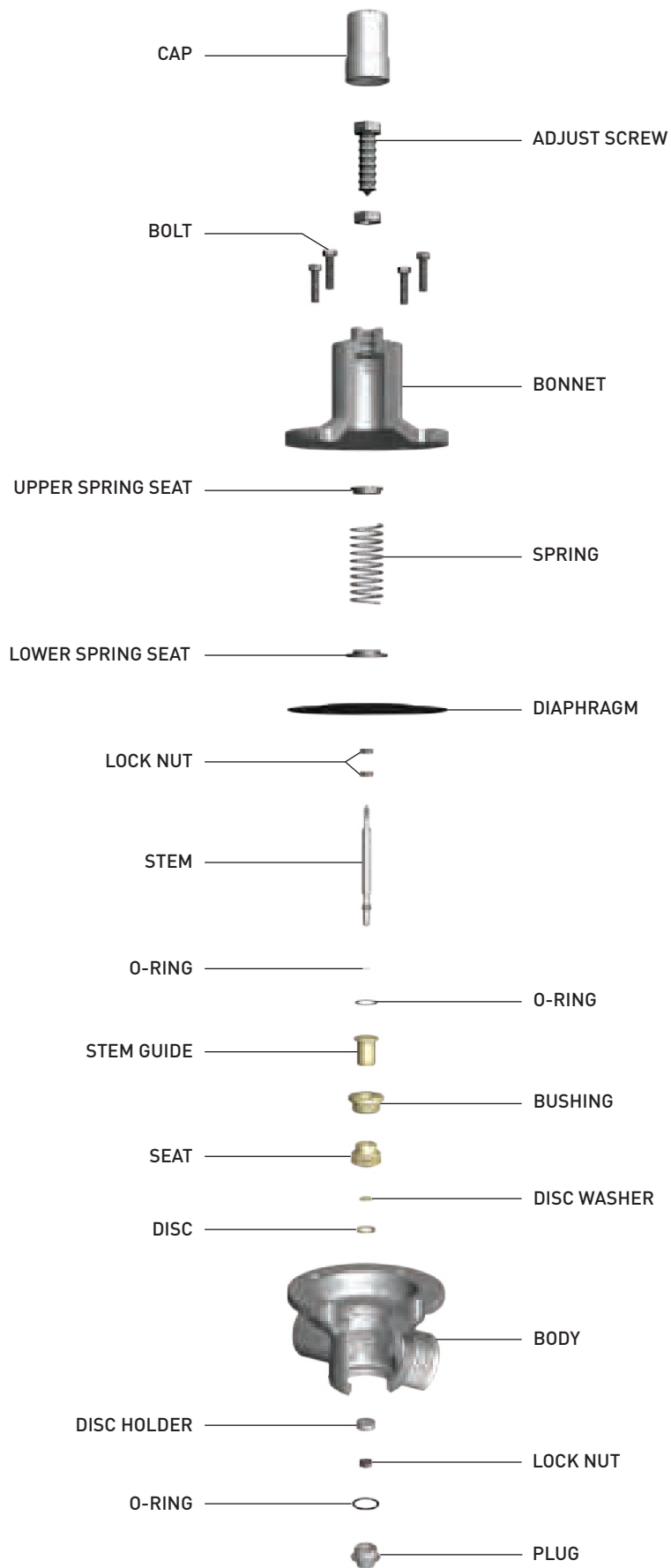
PRESSURE REDUCING & REGULATING VALVE PRESSURE REDUCING VALVE

- PART LIST FOR PRESSURE REDUCING VALVE
- DIMENSION LIST FOR PRESSURE REDUCING VALVE



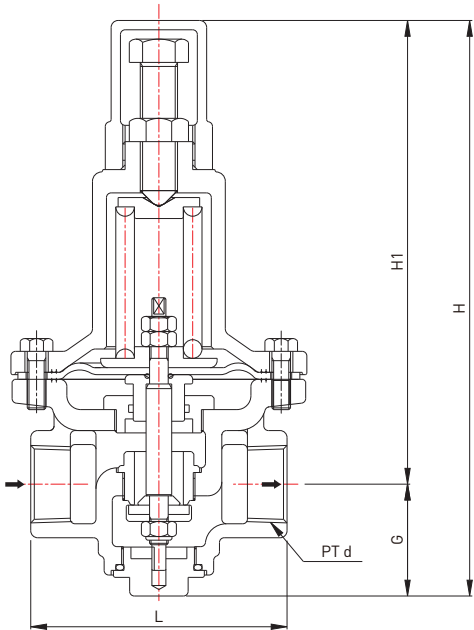
PRESSURE REDUCING VALVE

PART LIST FOR PRESSURE REDUCING VALVE



DIMENSION LIST

PRESSURE
REDUCING VALVE
(MODEL : SPRD-1S)



SPECIFICATION

Inlet Pressure (kgf/cm ²)	10	
Outlet Pressure (kgf/cm ²)	0.35 ~ 8	
Max Reducing Ratio	10 : 1	
Working Temperature	MAX. 80°C	
Working Fluid	Water, Air	
Connection	PT Screwed	
Material	Body	Ductile Cast Iron
	Trim	Bronze, Synthetic Rubber

DIMENSION

UNIT(mm)

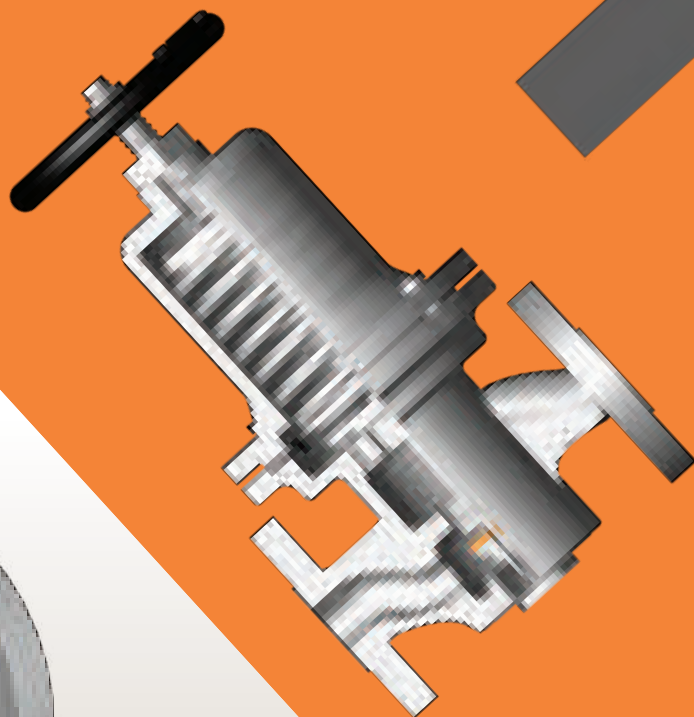
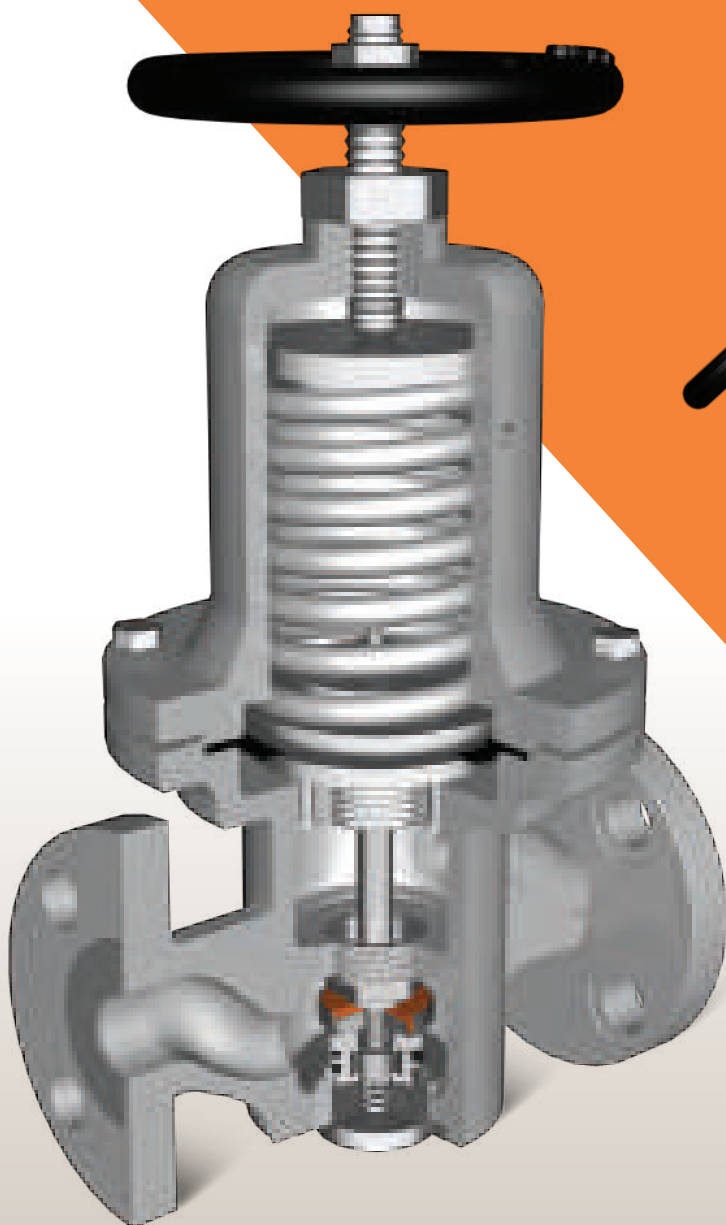
SIZE	L	G	H1	H	PT d
15A	100.0	47.0	175.0	222.0	PT ½"
20A	100.0	47.0	175.0	222.0	PT ¾"
25A	110.0	51.0	180.0	231.0	PT 1"
32A	150.0	70.0	210.0	290.0	PT 1¼"
40A	160.0	70.0	210.0	290.0	PT 1½"

PRESSURE REDUCING & REGULATING VALVE

PRESSURE REDUCING VALVE

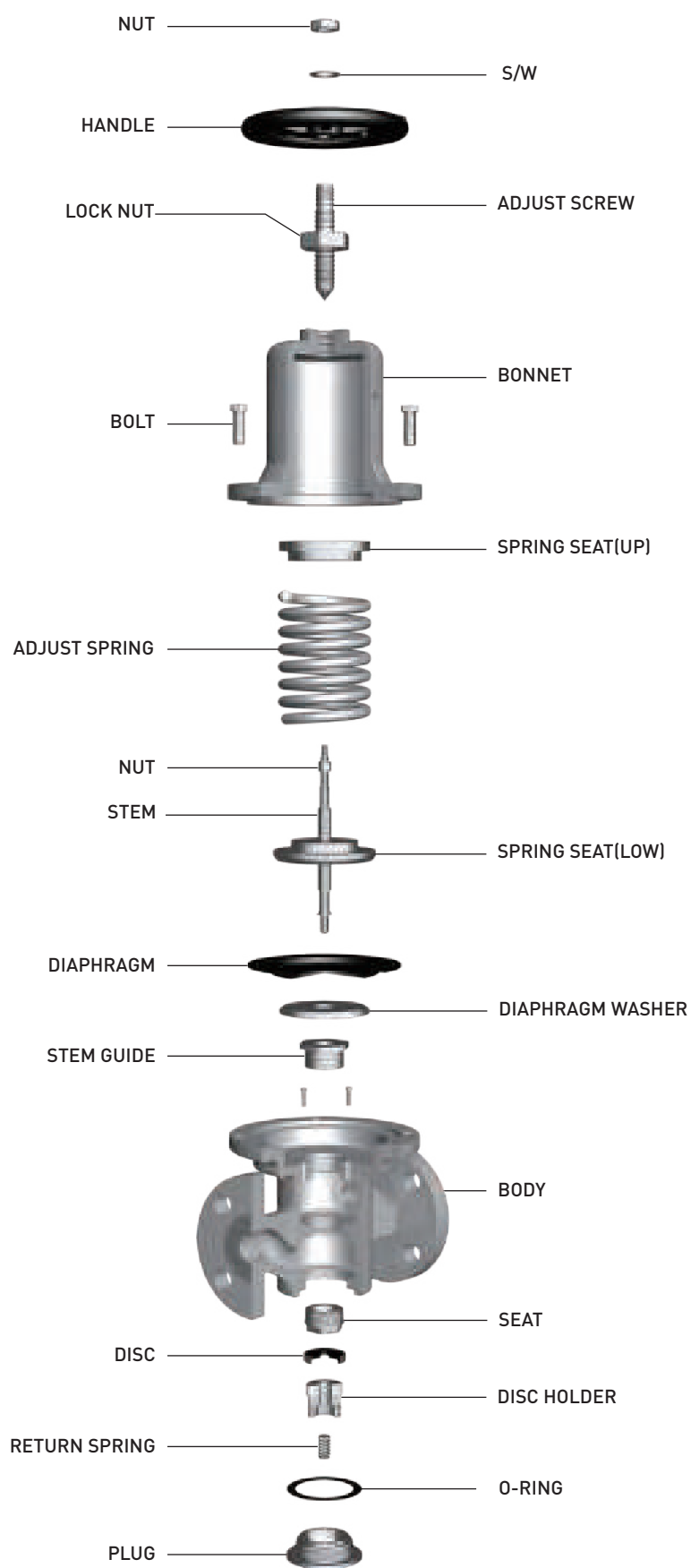
- PART LIST FOR PRESSURE REDUCING VALVE
- DIMENSION LIST FOR PRESSURE REDUCING VALVE

PRESSURE REDUCING & REGULATING VALVE



PRESSURE REDUCING VALVE

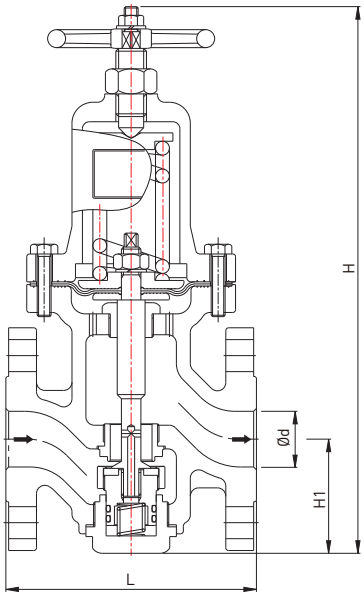
PART LIST FOR PRESSURE REDUCING VALVE



DIMENSION LIST

PRESSURE REDUCING VALVE

(MODEL : SPRD-3F)



PRESSURE REDUCING & REGULATING VALVE

SPECIFICATION

Inlet Pressure (kgf/cm ²)	30	
Outlet Pressure (kgf/cm ²)	0.35 ~ 10	
Max Reducing Ratio	10 : 1	
Working Temperature	MAX. 80℃	
Working Fluid	Air, Water	
Connection	JIS 30K Flanged	
Material	Body	Cast Steel / Cast Bronze / Stainless steel
	Trim	Stainless Steel, Synthetic Rubber

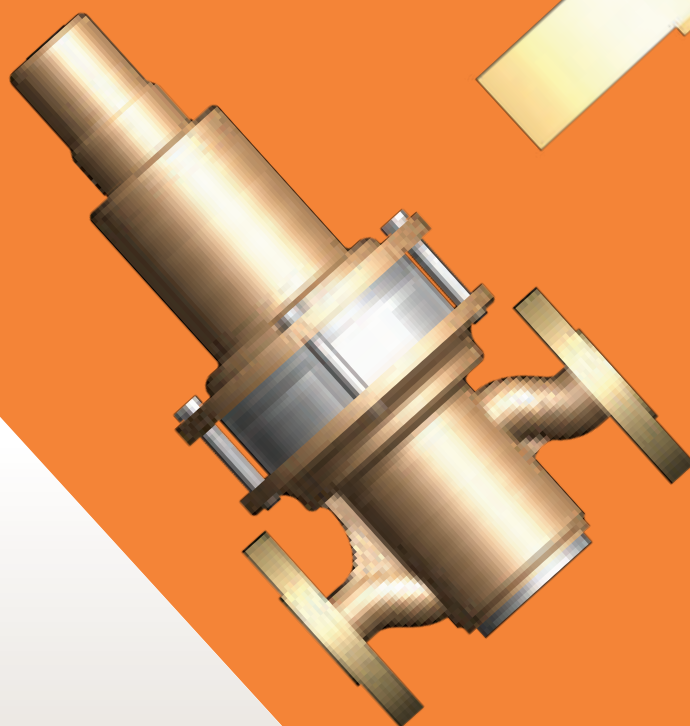
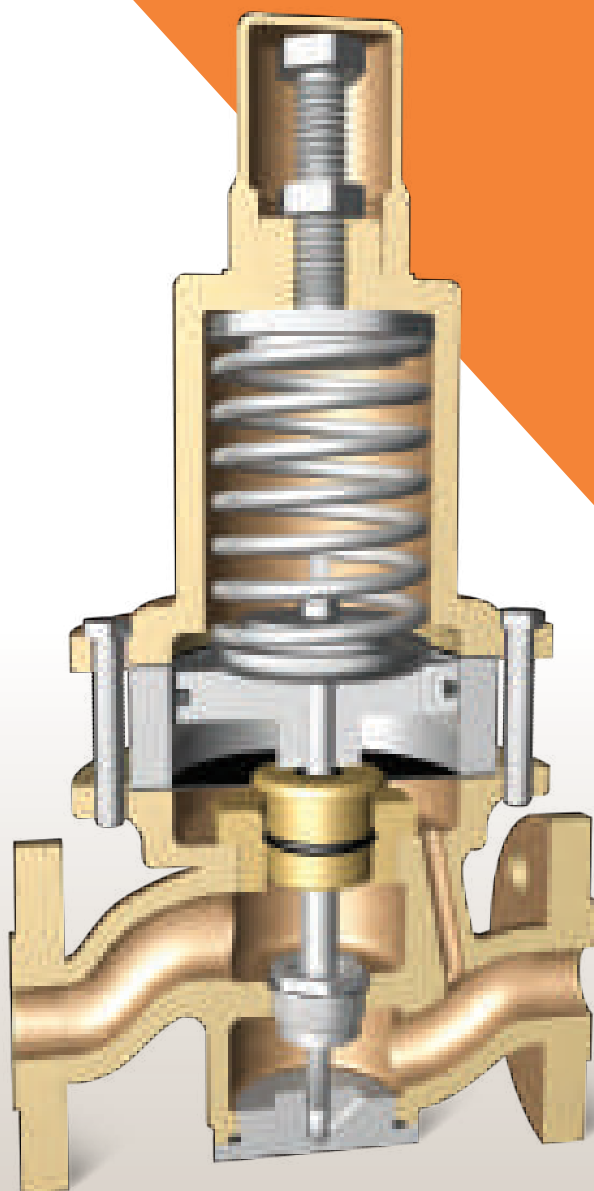
DIMENSION

UNIT(mm)

SIZE	Ød	L	H1	H	CONNECTION
½	15	145	75	355	JIS 30K RF ANSI 300# RF
¾	20	145	75	355	
1	25	150	75	355	
1¼	32	180	87	400	
1½	40	180	82	400	
2	50	210	82	400	

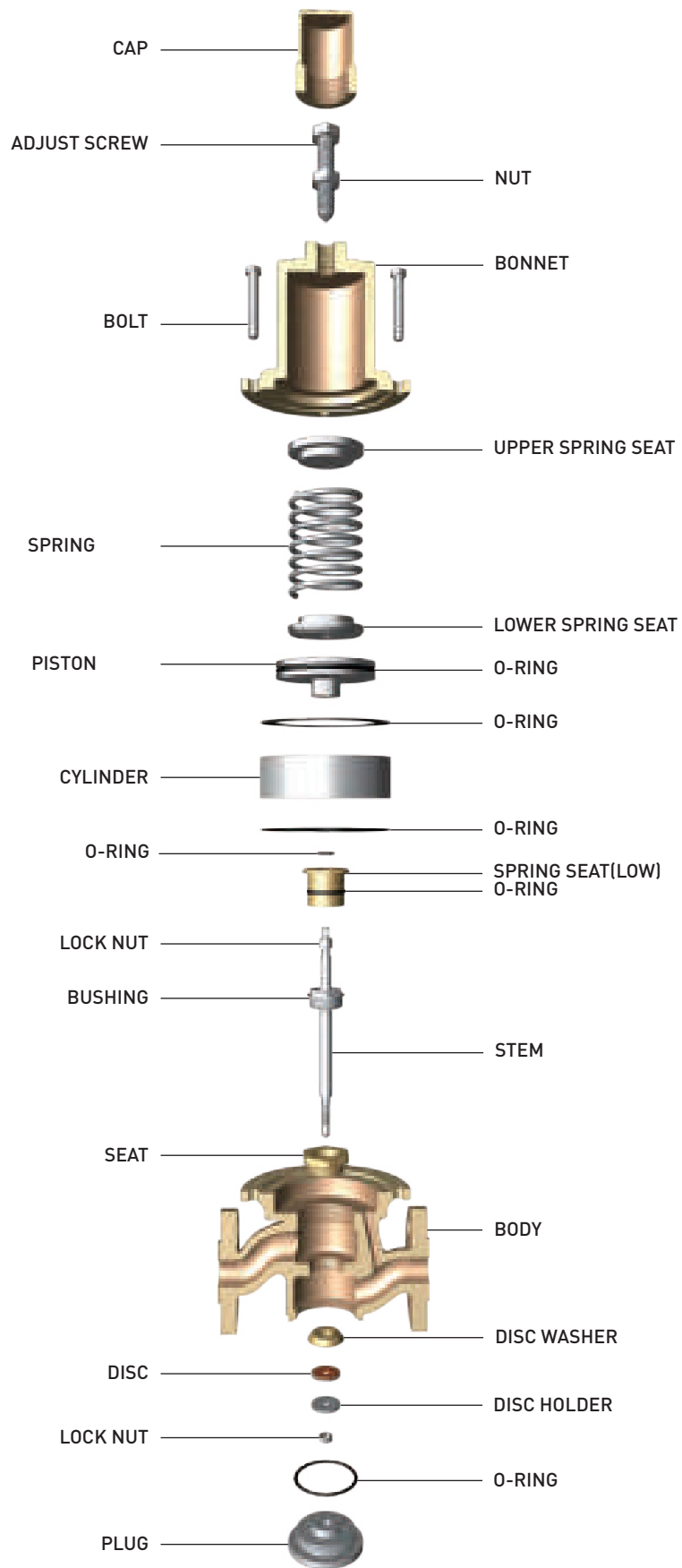
PRESSURE REDUCING & REGULATING VALVE PRESSURE REDUCING VALVE

- PART LIST FOR PRESSURE REDUCING VALVE
- DIMENSION LIST FOR PRESSURE REDUCING VALVE



PRESSURE REDUCING VALVE

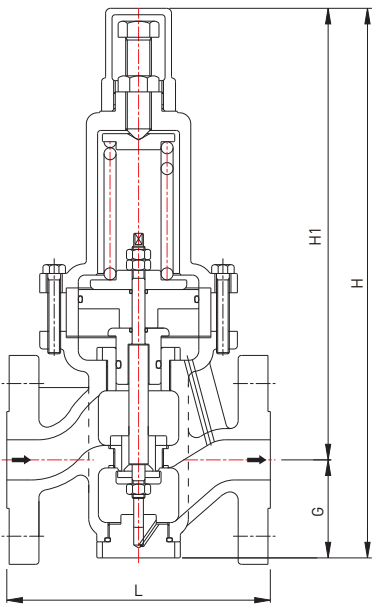
PART LIST FOR PRESSURE REDUCING VALVE



DIMENSION LIST

PRESSURE
REDUCING VALVE

(MODEL : SPRP-1F)



SPECIFICATION

Working Fluid	Air, Liquid, Oil	
Working Temperature	MAX. 110℃	
Working Pressure (kgf/cm ²)	10	
Setting Pressure Range (kgf/cm ²)	0.5 ~ 8	
Hydrostatic Press Test	Working pressure × 1.5	
Material	Body	Ductile Cast Iron
	Trim	Stainless Steel / NBR

DIMENSION

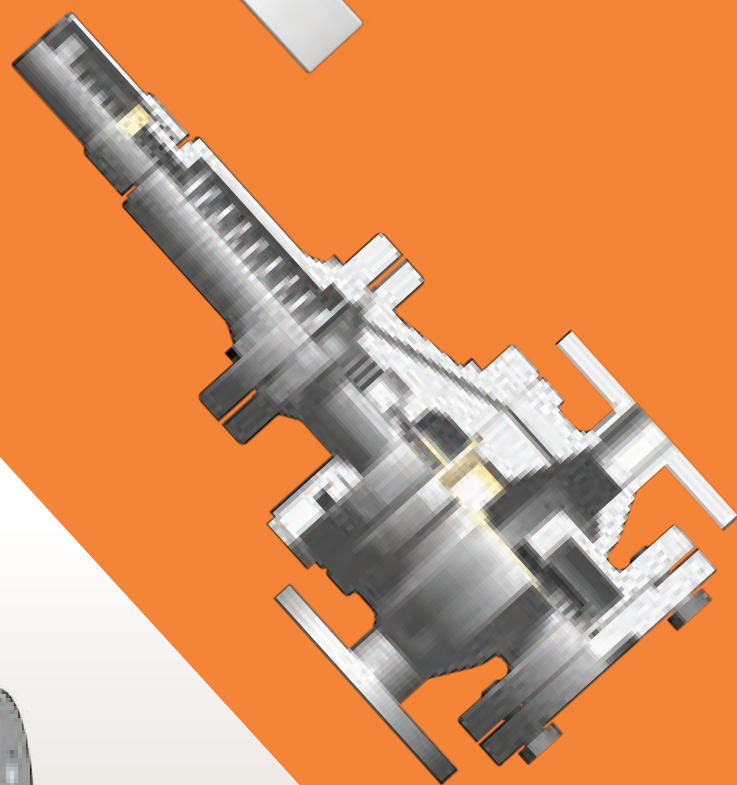
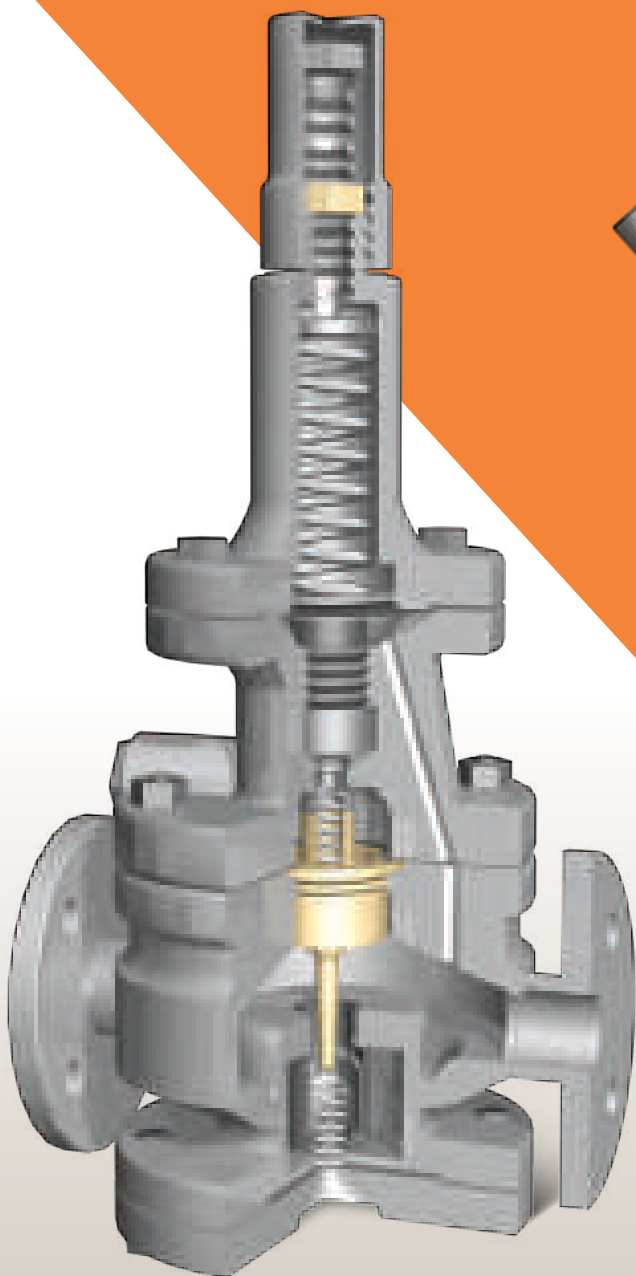
UNIT(mm)

SIZE	L	G	H	H1	CONNECTION
15A	160	62	317	255	FLANGE JIS B2220 10K
20A	160	62	317	255	
25A	160	62	328	266	
32A	180	70	405	335	
40A	180	70	405	335	
50A	190	75	420	345	
65A	230	100	505	405	
80A	250	100	520	420	

PRESSURE REDUCING & REGULATING VALVE

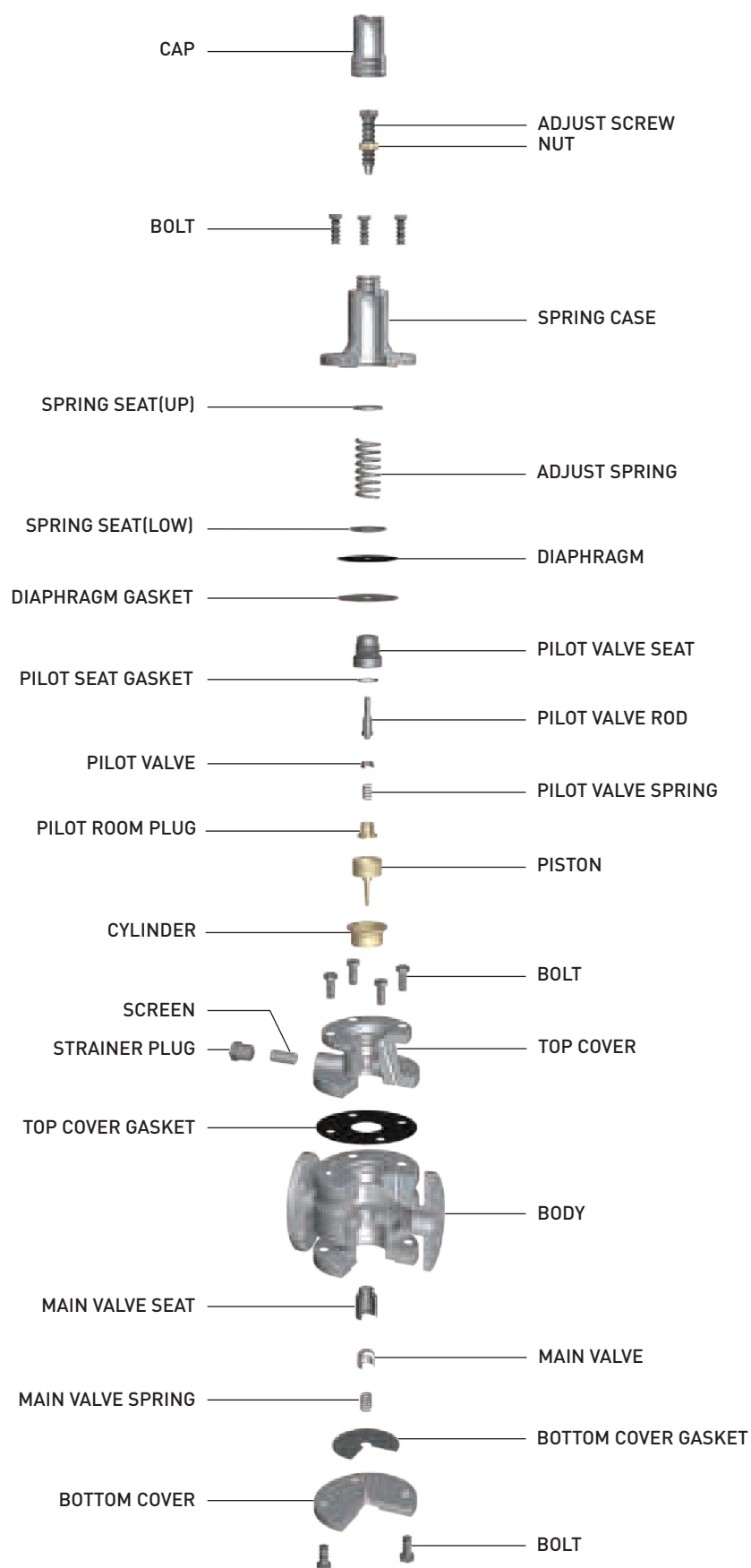
PRESSURE REDUCING VALVE

- PART LIST FOR PRESSURE REDUCING VALVE
- DIMENSION LIST FOR PRESSURE REDUCING VALVE



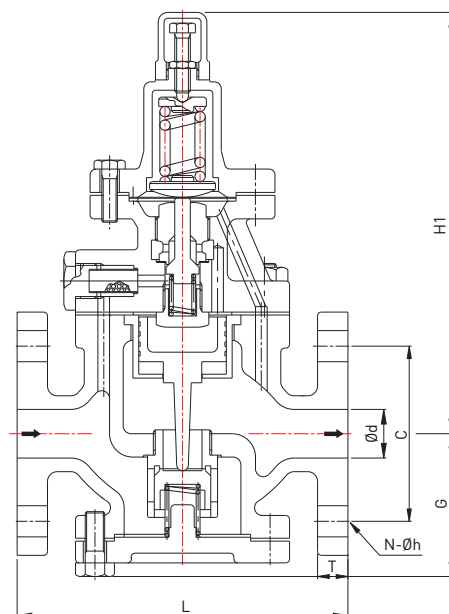
PRESSURE REDUCING VALVE

PART LIST FOR PRESSURE REDUCING VALVE



DIMENSION LIST

PRESSURE REDUCING VALVE (MODEL : SPRS-1F)



PRESSURE REDUCING & REGULATING VALVE

SPECIFICATION

Inlet Pressure (kgf/cm ²)	10	
Outlet Pressure (kgf/cm ²)	0.35 ~ 8	
Max Reducing Ratio	10 : 1	
Working Temperature	MAX. 220°C	
Working Fluid	Steam	
Connection	JIS 10K Flanged	
Material	Body	Ductile Cast Iron / Cast Steel
	Trim	Stainless Steel

DIMENSION

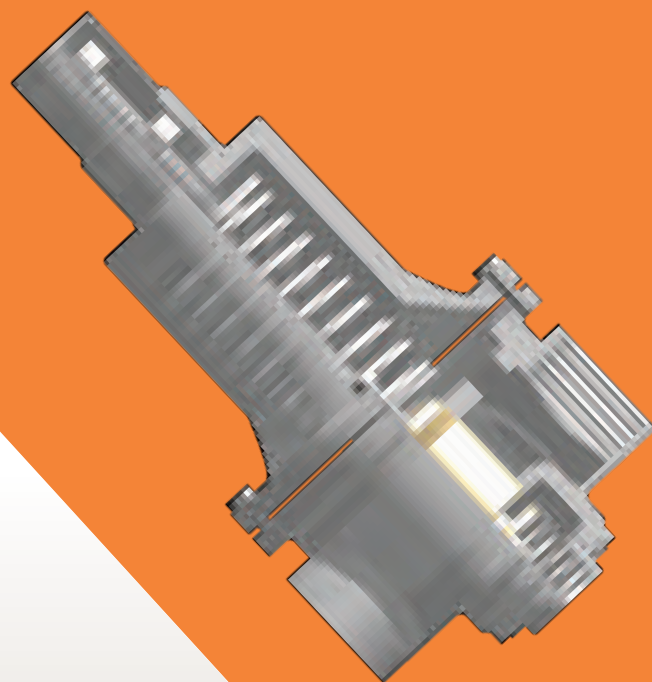
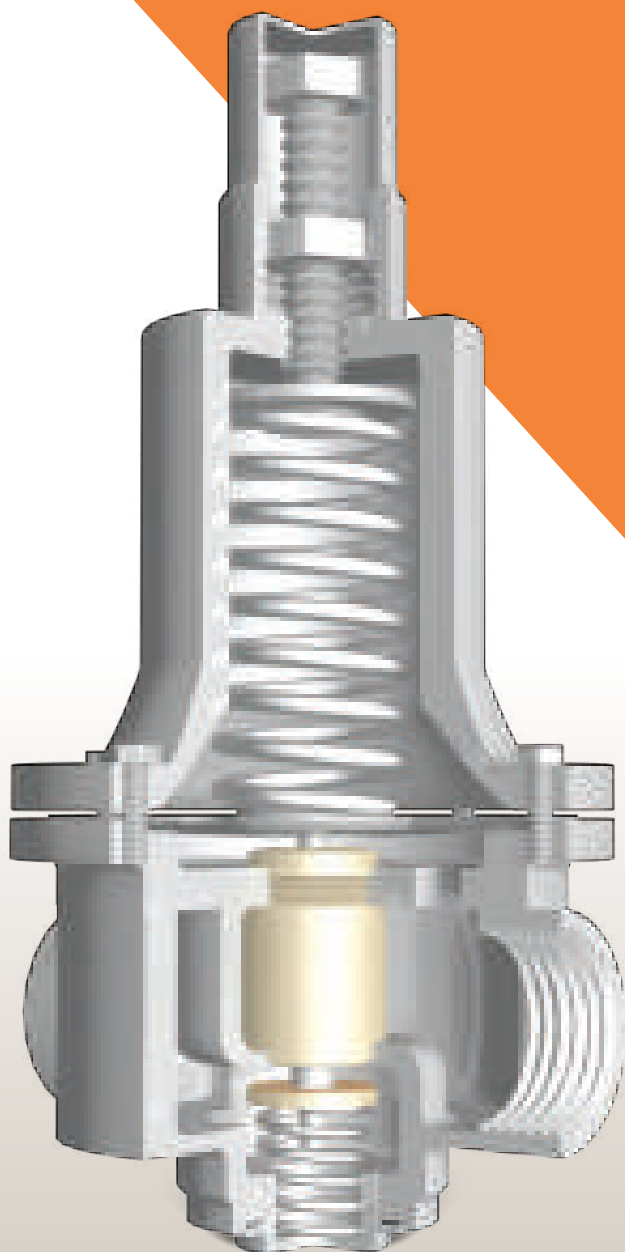
UNIT(mm)

SIZE	L	G	H1	INLET FLANGE JIS B 2220 10K FF (KS B1503)			
				Ød	C	T	N-Øh
15A	165	75	270	95	70	12	4-15
20A	165	75	270	100	75	14	4-15
25A	170	75	270	125	90	14	4-19
32A	200	85	275	135	100	16	4-19
40A	200	85	275	140	105	16	4-19
50A	220	95	283	155	120	16	4-19
65A	250	110	310	175	140	18	4-19
80A	290	130	350	185	150	18	8-19
100A	320	150	370	210	175	18	8-19

PRESSURE REDUCING & REGULATING VALVE

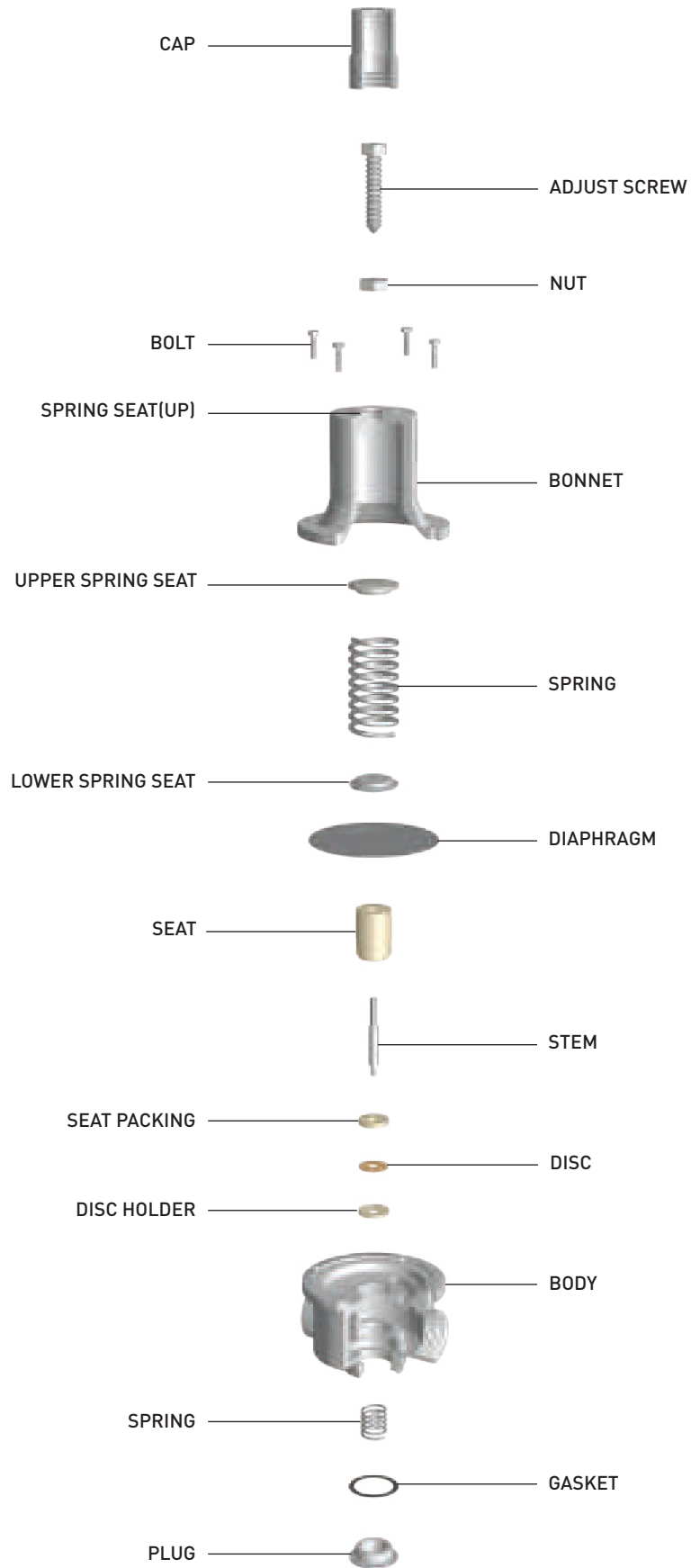
PRESSURE REDUCING VALVE

- PART LIST FOR PRESSURE REDUCING VALVE
- DIMENSION LIST FOR PRESSURE REDUCING VALVE



PRESSURE REDUCING VALVE

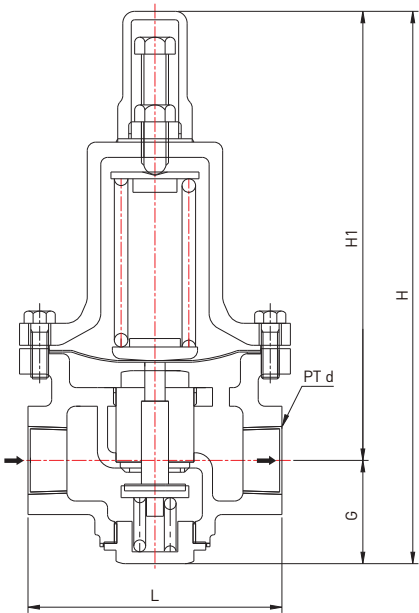
PART LIST FOR PRESSURE REDUCING VALVE



DIMENSION LIST

PRESSURE REDUCING VALVE

(MODEL : SPRS-1S)



SPECIFICATION

Working Fluid	Liquid, Air	
Working Temperature	MAX. 80℃	
Working Pressure (kgf/cm²)	10	
Setting Pressure Range (kgf/cm²)	0.5 ~ 8	
Hydrostatic Press Test	Working pressure × 1.5	
Material	Body	Ductile Cast Iron
	Trim	Stainless Steel

DIMENSION

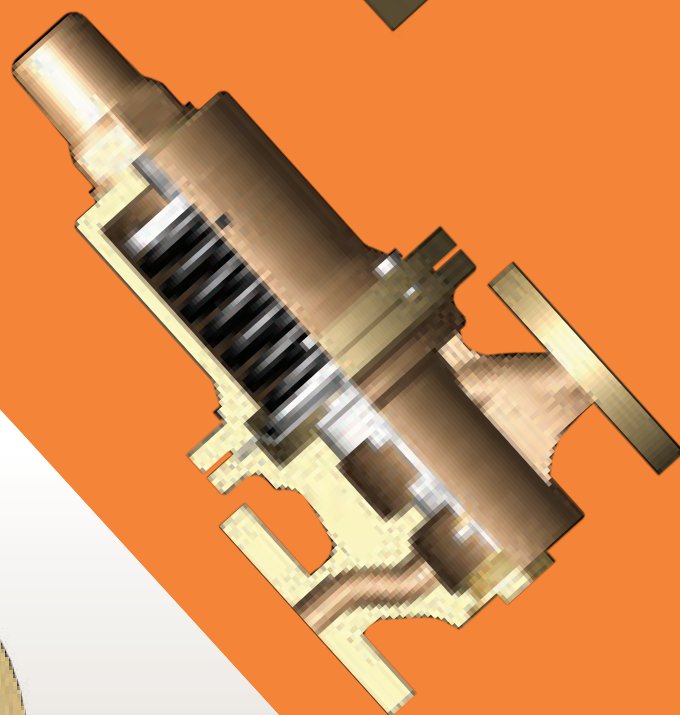
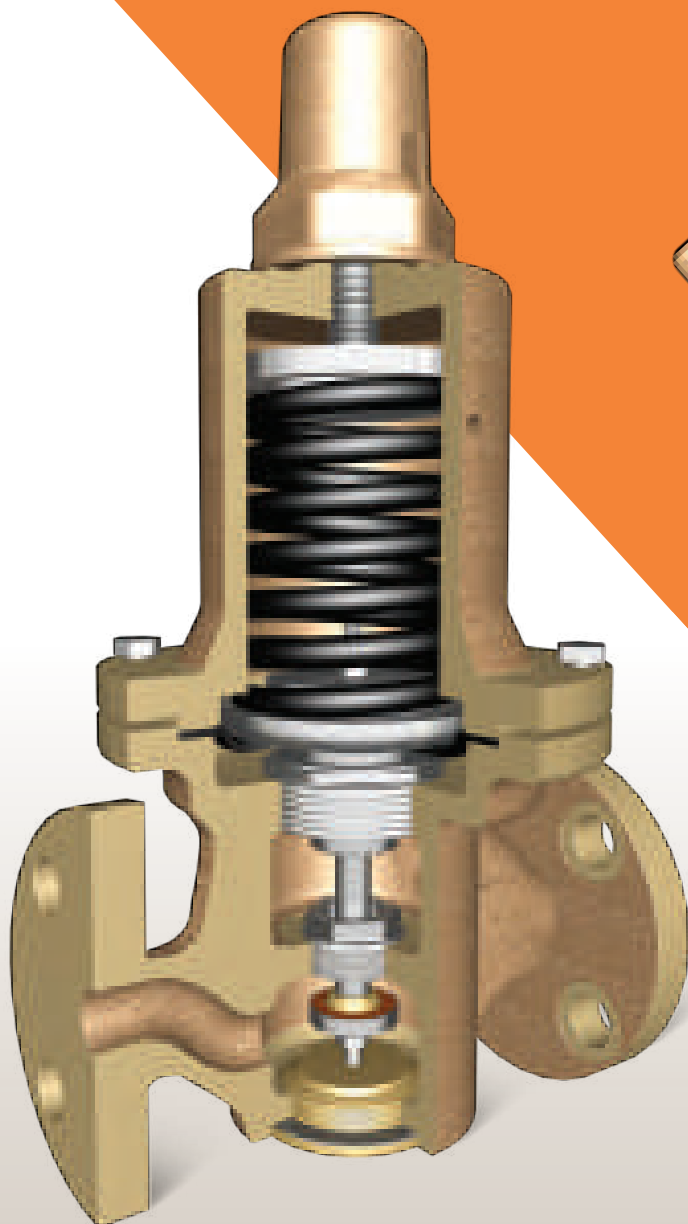
UNIT(mm)

SIZE	L	G	H1	H	PT d
15A	120.0	47.0	175.0	222.0	PT ½"
20A	120.0	47.0	175.0	222.0	PT ¾"
25A	120.0	51.0	180.0	231.0	PT 1"
32A	150.0	70.0	210.0	280.0	PT 1¼"
40A	150.0	70.0	210.0	280.0	PT 1½"

PRESSURE REDUCING & REGULATING VALVE

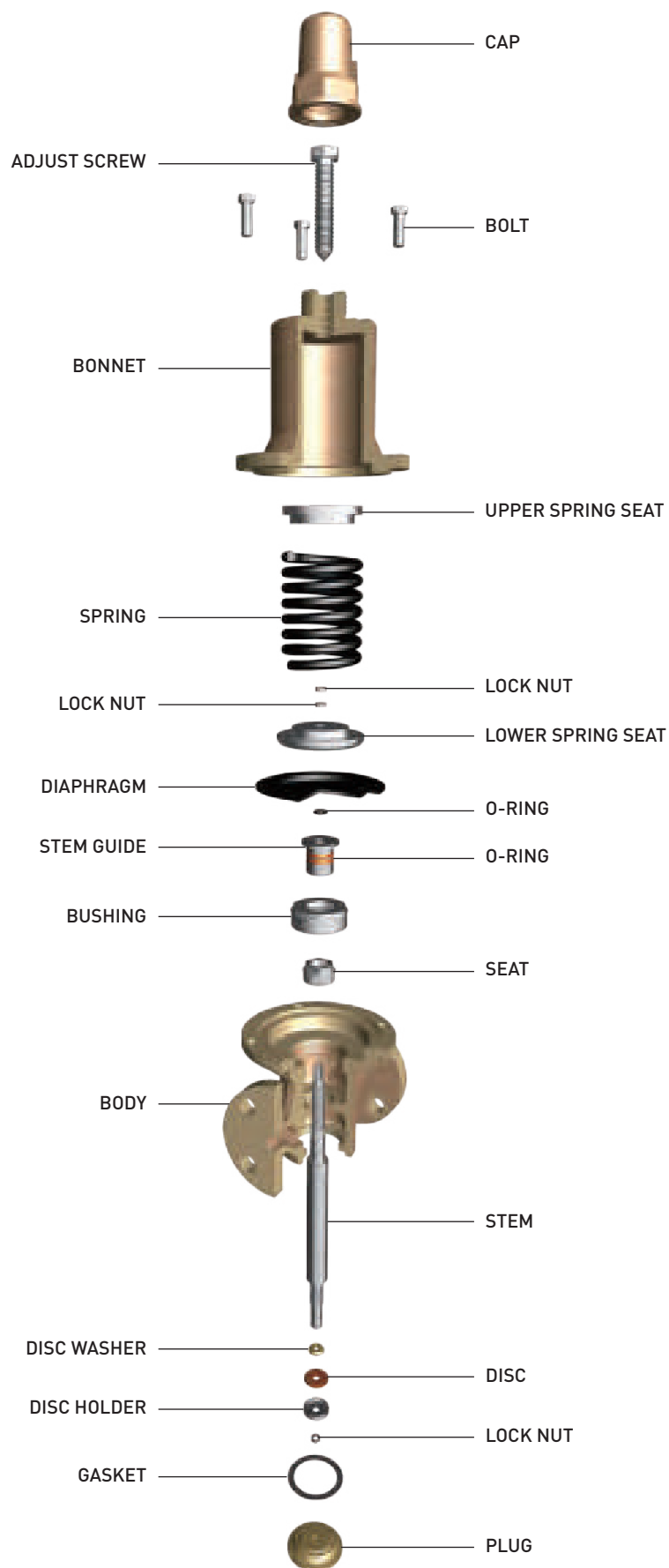
PRIMARY REGULATING VALVE

- PART LIST FOR PRIMARY REGULATING VALVE
- DIMENSION LIST FOR PRIMARY REGULATING VALVE



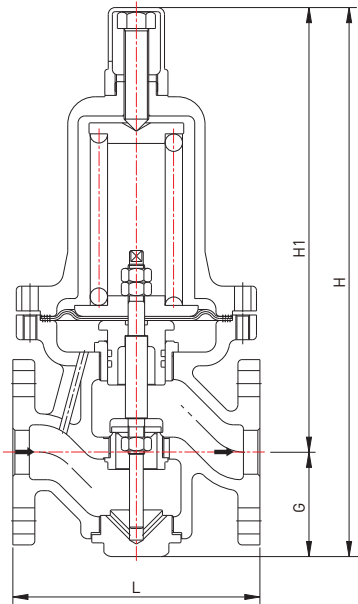
PRIMARY REGULATING VALVE

PART LIST FOR PRIMARY REGULATING VALVE



DIMENSION LIST

PRIMARY REGULATING VALVE (MODEL : SPPD-1F)



SPECIFICATION

Working Pressure (kgf/cm ²)	10	
Outlet Pressure (kgf/cm ²)	0.5 ~ 8	
Working Temperature	MAX. 80°C	
Working Fluid	Liquid, Air, Water	
Connection	JIS 10K Flanged	
Material	Body	Ductile Cast Iron / Cast Steel / Cast Bronze
	Trim	Stainless Steel

DIMENSION

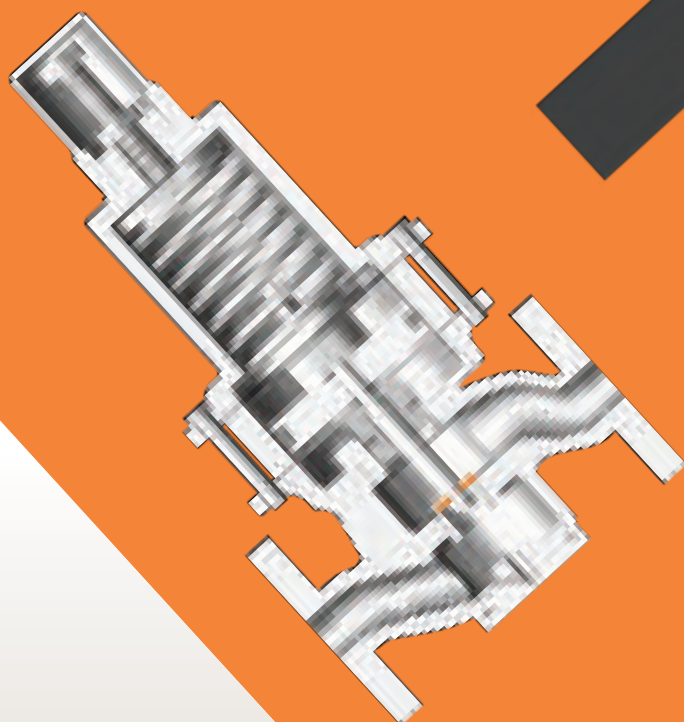
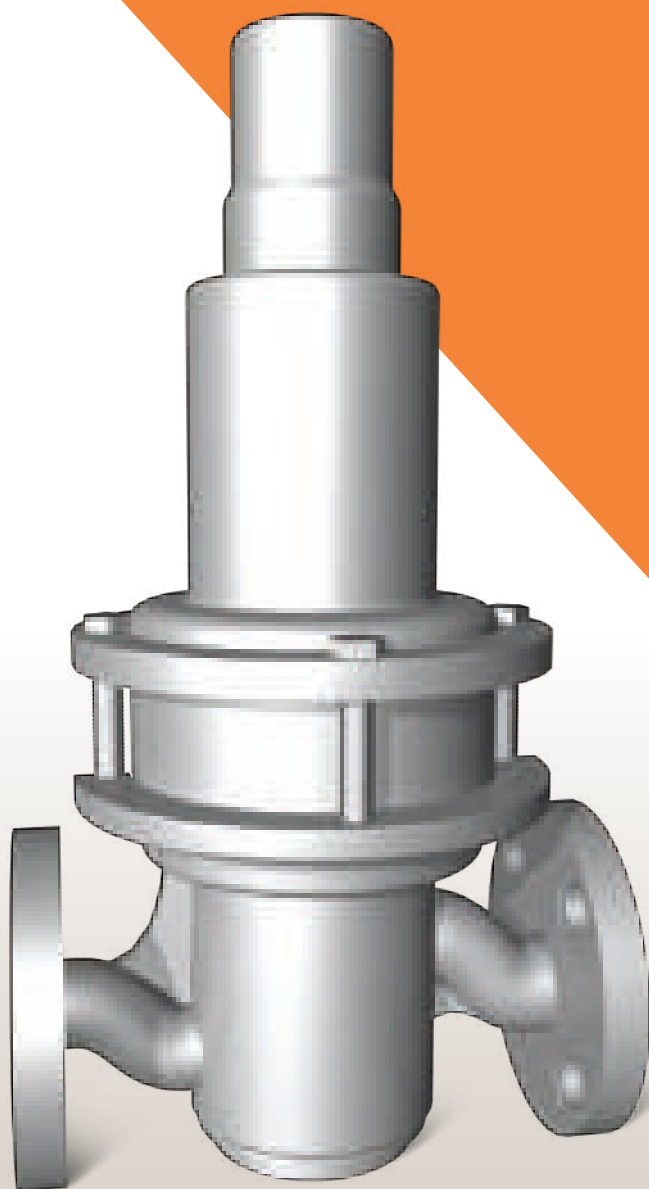
UNIT(mm)

SIZE	L	G	H	H1	CONNECTION
15A	160	65	334	269	INLET FLANGE JIS B 2220 10K FF (KS B 1503)
20A	160	65	334	269	
25A	160	65	334	269	
32A	180	75	405	330	
40A	180	75	405	330	
50A	190	75	410	335	
65A	230	80	500	420	
80A	250	100	520	420	

**PRESSURE REDUCING &
REGULATING VALVE**

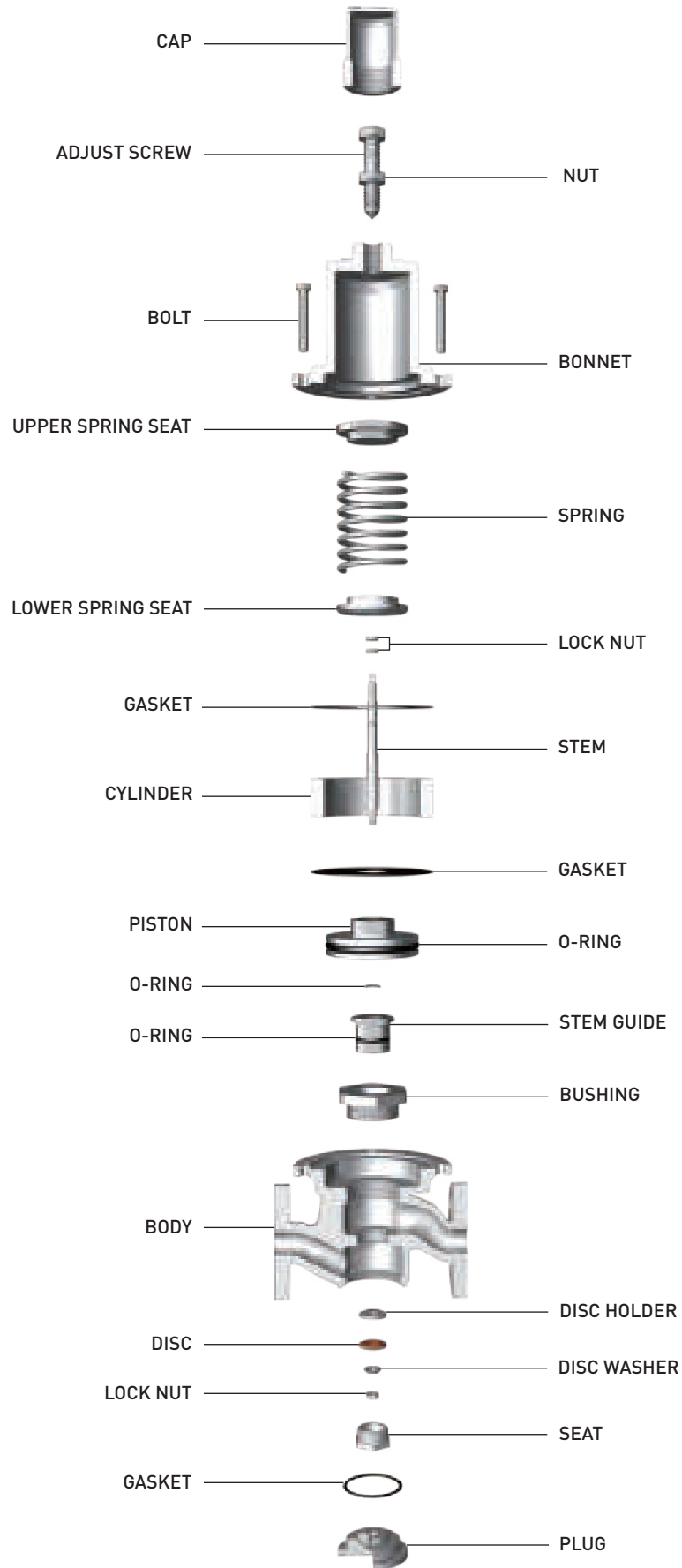
PISTON TYPE PRESSURE REGULATING VALVE

- PART LIST FOR PISTON TYPE PRESSURE REGULATING VALVE
- DIMENSION LIST FOR PISTON TYPE PRESSURE REGULATING VALVE



PISTON TYPE PRESSURE REGULATING VALVE

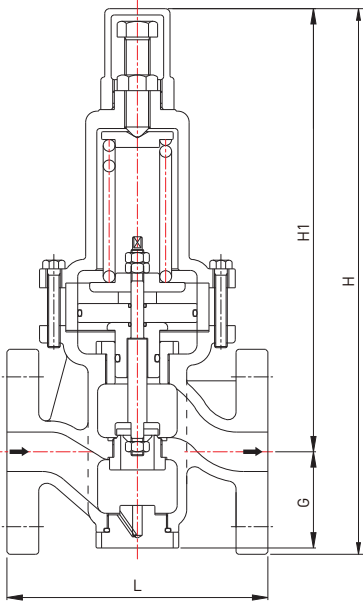
PART LIST FOR PISTON TYPE PRESSURE REGULATING VALVE



DIMENSION LIST

PISTON TYPE PRESSURE REGULATING VALVE

(MODEL : SPPP-1F)



SPECIFICATION

Working Fluid	Liquid, Oil	
Working Temperature	MAX. 180℃	
Working Pressure (kgf/cm ²)	16	
Setting Pressure Range (kgf/cm ²)	0.5 ~ 12	
Hydrostatic Press Test	Working pressure × 1.5	
Material	Body	Ductile Cast Iron
	Trim	Stainless Steel / NBR

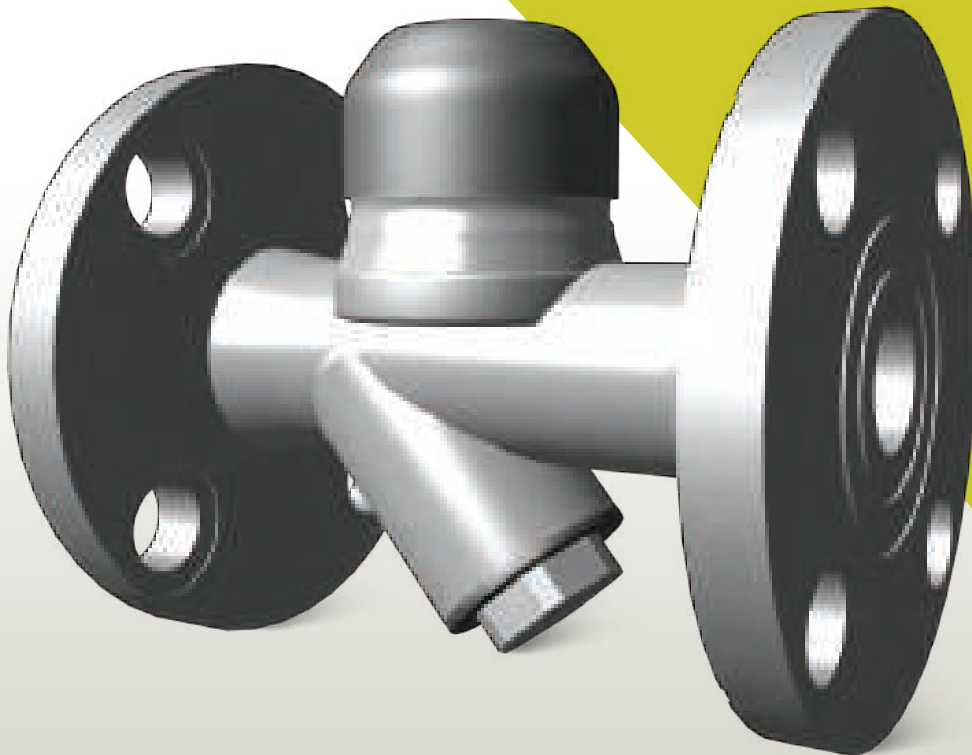
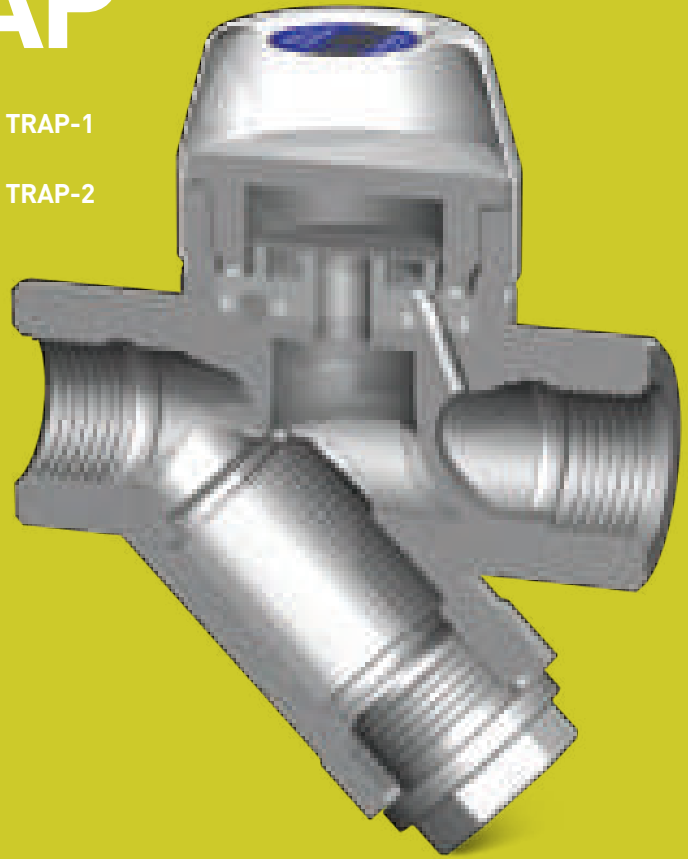
DIMENSION

UNIT(mm)

SIZE	L	G	H	H1	CONNECTION
15A	160	62	350	255	INLET FLANGE JIS B 2210 16K FF (KS B 1511)
20A	160	62	350	255	
25A	160	62	350	266	
32A	180	70	410	335	
40A	180	70	410	335	
50A	190	75	460	345	
65A	230	100	460	405	
80A	250	100	460	420	

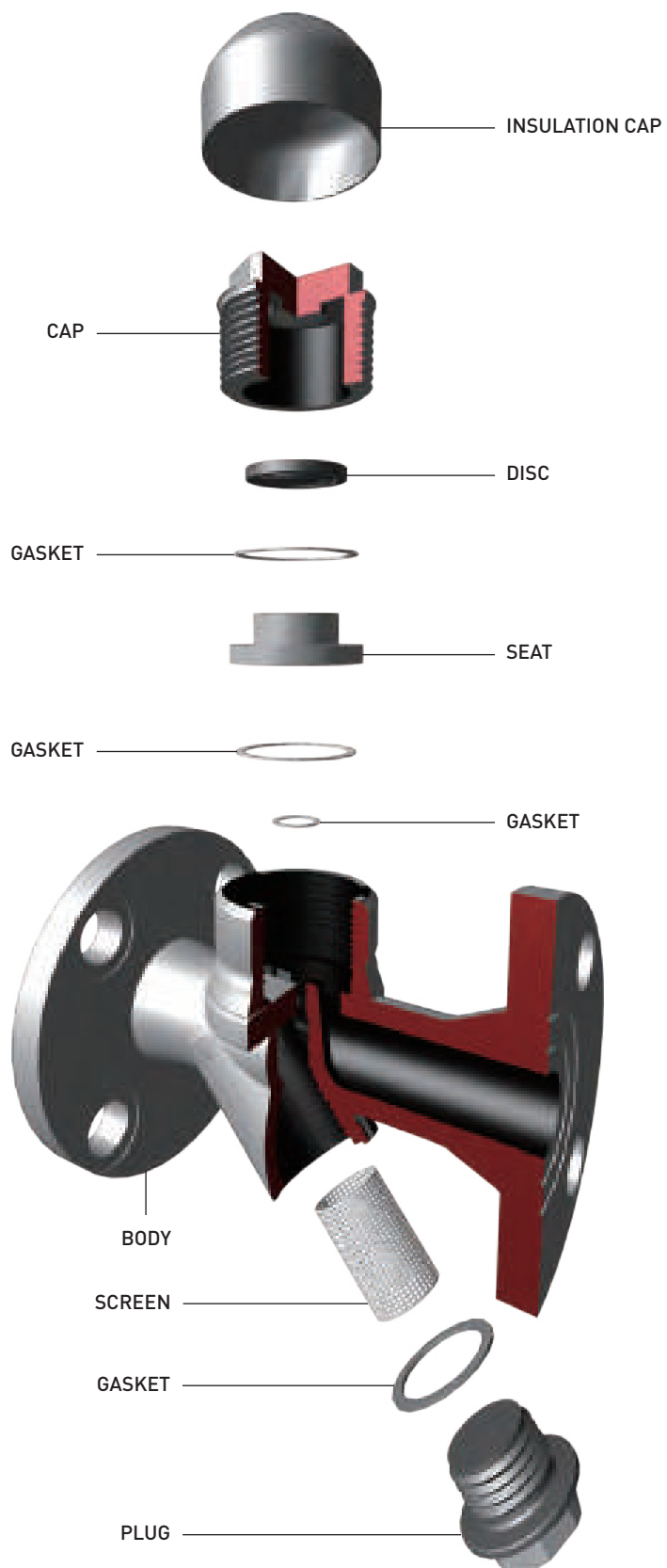
STEAM TRAP + DISC TYPE STEAM TRAP

- PART LIST FOR DISC TYPE STEAM TRAP-1
- DIMENSION & WEIGHT LIST FOR DISC TYPE STEAM TRAP-1
- PART LIST FOR DISC TYPE STEAM TRAP-2
- DIMENSION & WEIGHT LIST FOR DISC TYPE STEAM TRAP-2



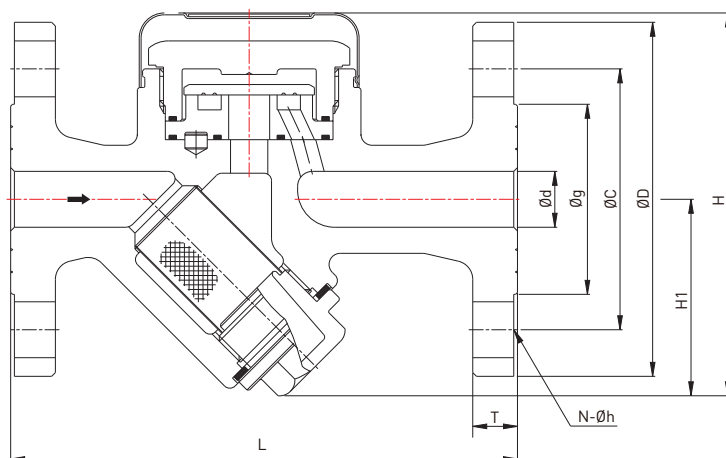
DISC TYPE STEAM TRAP-1

PART LIST FOR DISC TYPE STEAM TRAP-1



DIMENSION & WEIGHT LIST

DISC TYPE STEAM TRAP-1 (MODEL : SPTD-1F)



SPECIFICATION

Working Pressure (kgf/cm ²)	0.35 ~ 16	
Working Temperature	MAX. 220°C	
Working Fluid	Steam	
Connection	JIS Flanged	
Material	Body	Ductile Cast Iron
	Trim	Stainless Steel

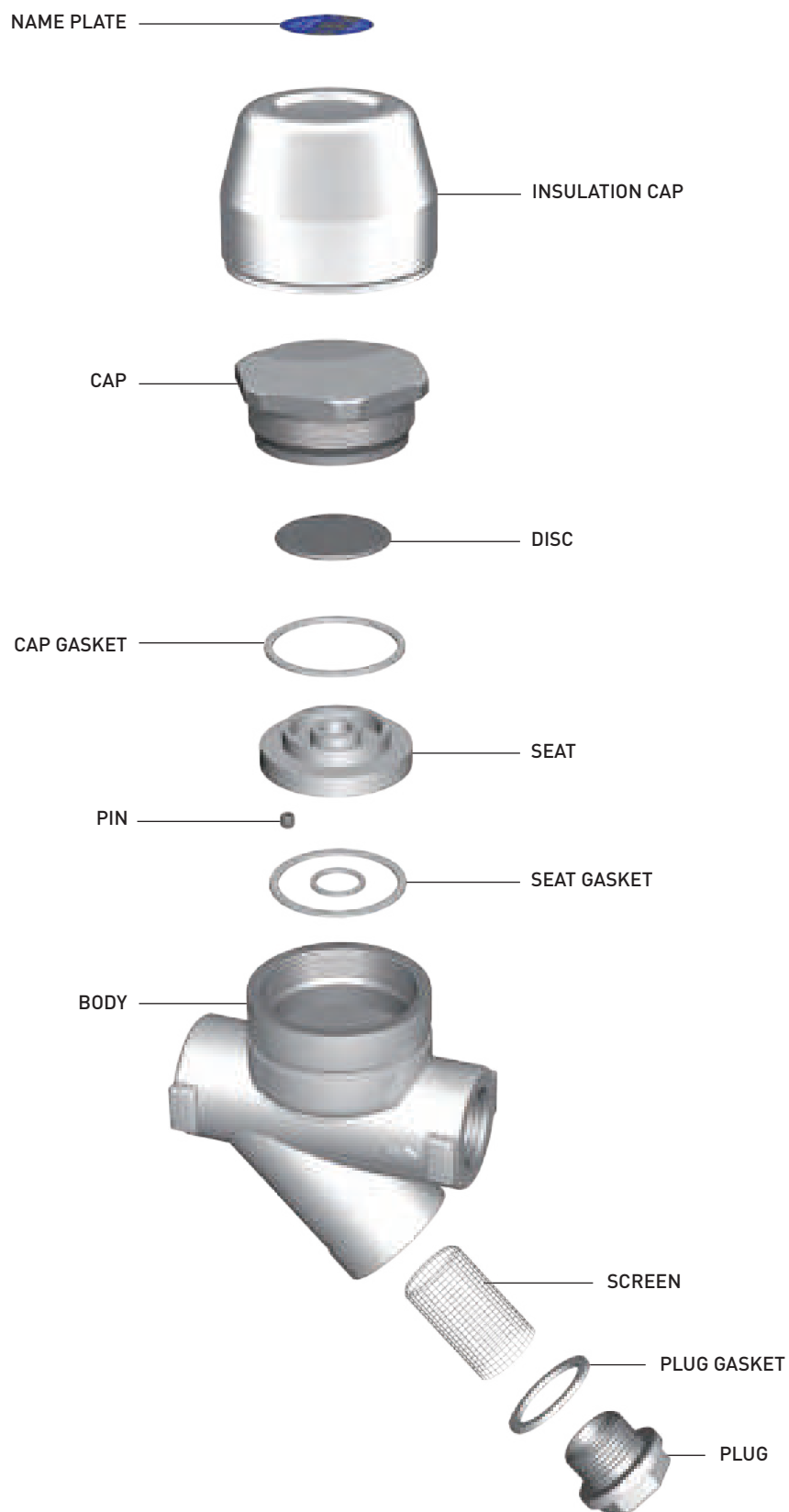
DIMENSION

UNIT(mm)

SIZE	PRESSURE (FLANGE)	Ød	L	H1	H	FLANGE JIS B 2210					WEIGHT (kg)
						ØD	ØC	Øg	T	N-Øh	
15A	5K FF	15	130	53	103	80	60	-	9	4-12	1.9
	10K FF, 16K FF	15	136	53	103	95	70	-	12	4-15	2.4
	10K RF, 16K RF	15	136	53	103	95	70	51	12	4-15	2.4
20A	5K FF	20	132	55	108	85	65	-	10	4-12	2.3
	10K FF, 16K FF	20	140	55	108	100	75	-	14	4-15	2.7
	10K RF, 16K RF	20	140	55	108	100	75	56	14	4-15	2.7
25A	5K FF	25	142	58	113	95	75	-	10	4-12	2.5
	10K FF, 16K FF	25	150	58	113	125	90	-	14	4-19	3.7
	10K RF, 16K RF	25	150	58	113	125	90	67	14	4-19	3.7

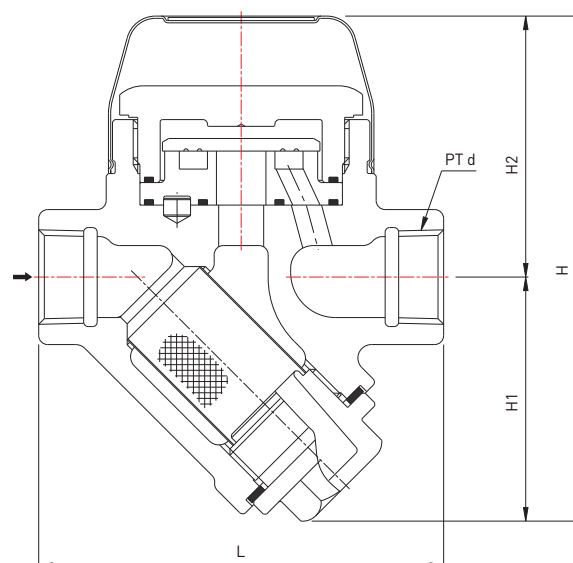
DISC TYPE STEAM TRAP-2

PART LIST FOR DISC TYPE STEAM TRAP-2



DIMENSION & WEIGHT LIST

DISC TYPE STEAM TRAP-2 (MODEL : SPTD-1S)



SPECIFICATION

Working Pressure (kgf/cm ²)	0.35 ~ 16	
Working Temperature	MAX. 220°C	
Working Fluid	Steam	
Connection	PT Screwed	
Material	Body	Ductile Cast Iron
	Trim	Stainless Steel

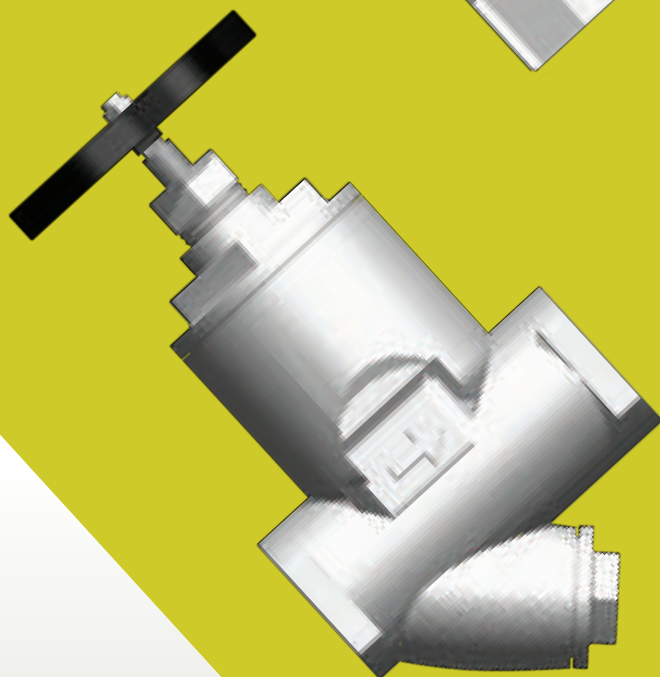
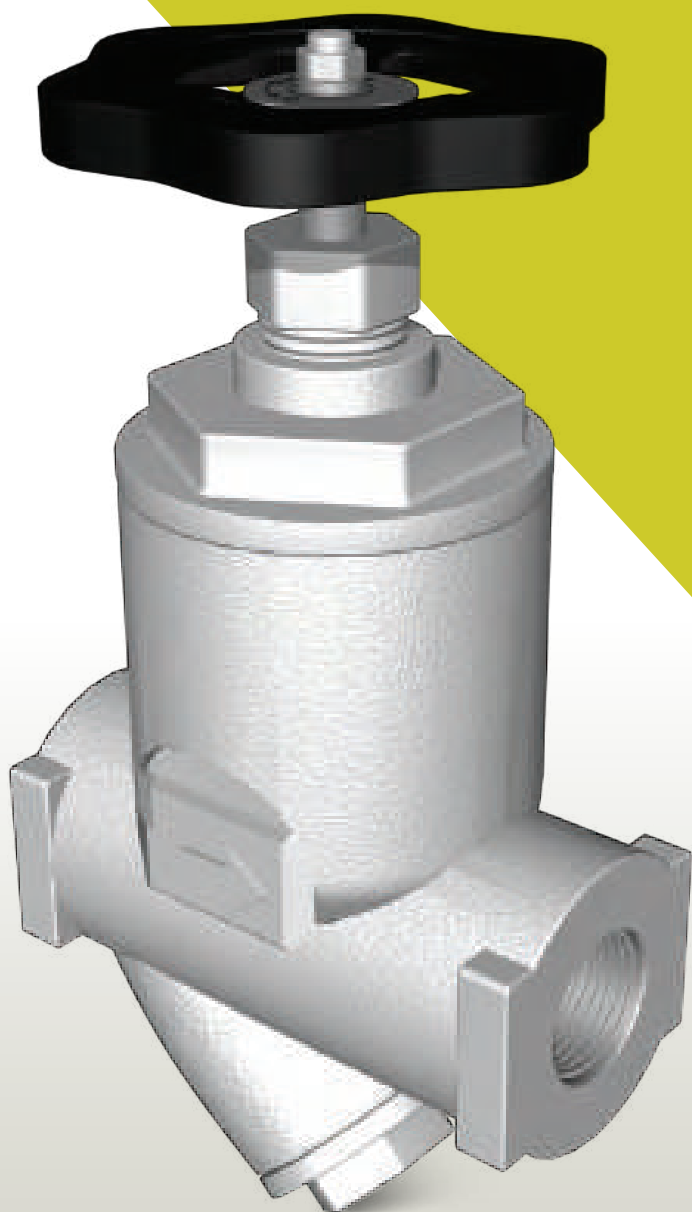
DIMENSION

UNIT(mm)

SIZE	L	H1	H2	H	PT d	WEIGHT (kg)
15A	90.0	54.0	50.0	104.0	½"	1.1
20A	95.0	56.0	52.0	108.0	¾"	1.2
25A	100.0	58.0	54.0	112.0	1"	1.3

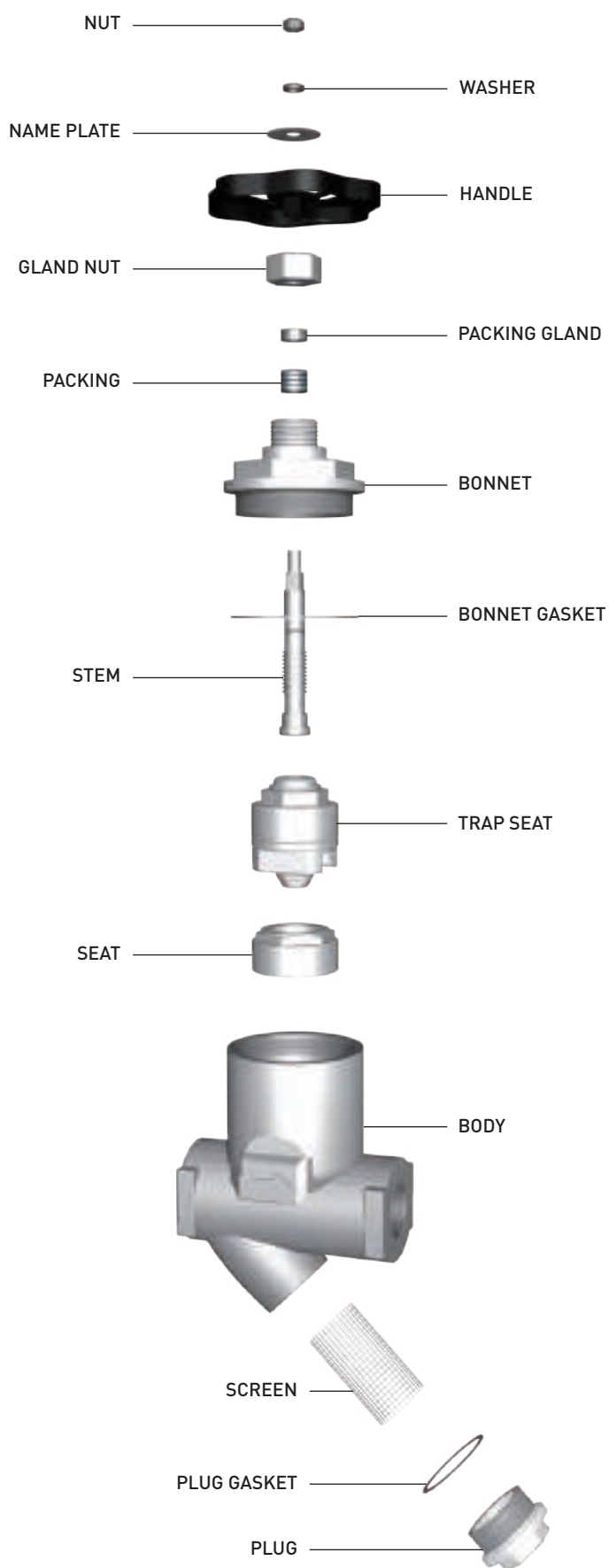
STEAM TRAP BY-PASS TYPE STEAM TRAP

- PART LIST FOR BY-PASS TYPE STEAM TRAP
- DIMENSION & WEIGHT LIST FOR BY-PASS TYPE STEAM TRAP



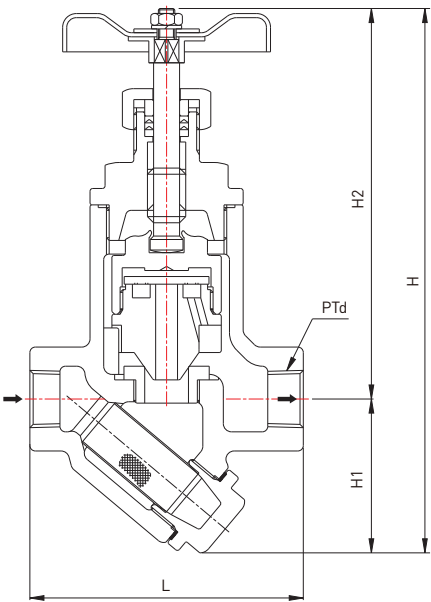
BY-PASS TYPE STEAM TRAP

PART LIST FOR BY-PASS TYPE STEAM TRAP



DIMENSION & WEIGHT LIST

BY-PASS TYPE
STEAM TRAP
(MODEL : SPTP-1S)



SPECIFICATION

Working Pressure (kgf/cm ²)	0.35 ~ 16	
Working Temperature	MAX. 220℃	
Working Fluid	Steam	
Connection	PT Screwed	
Material	Body	Ductile Cast Iron
	Trim	Stainless Steel

DIMENSION

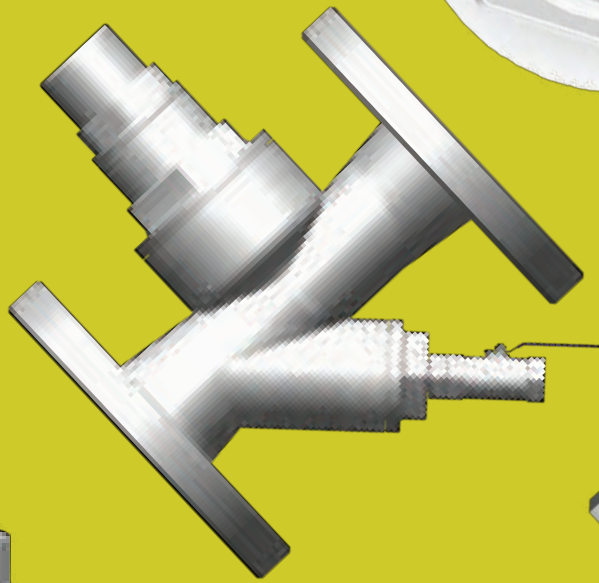
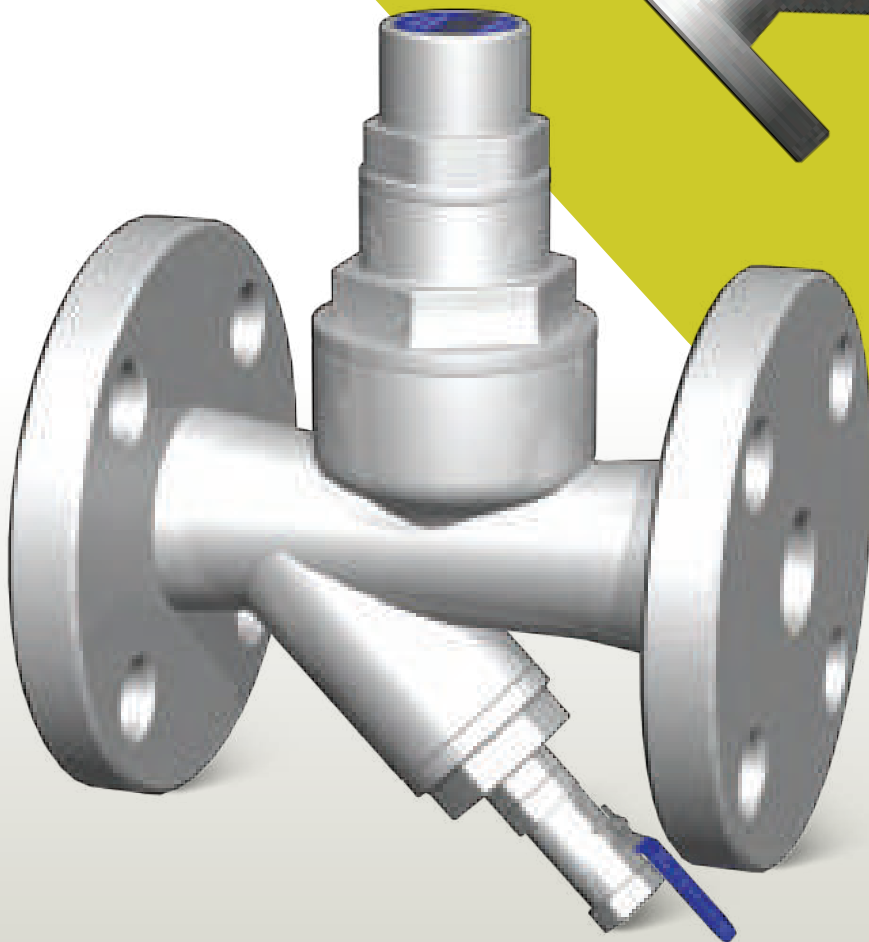
UNIT(mm)

SIZE	L	H1	H2	H	PT d	WEIGHT (kg)
15A	100.0	58.0	145.0	203.0	½"	2.1
20A	100.0	58.0	145.0	203.0	¾"	2.1
25A	110.0	62.0	145.0	207.0	1"	2.3

STEAM TRAP + PISTON TYPE STEAM TRAP

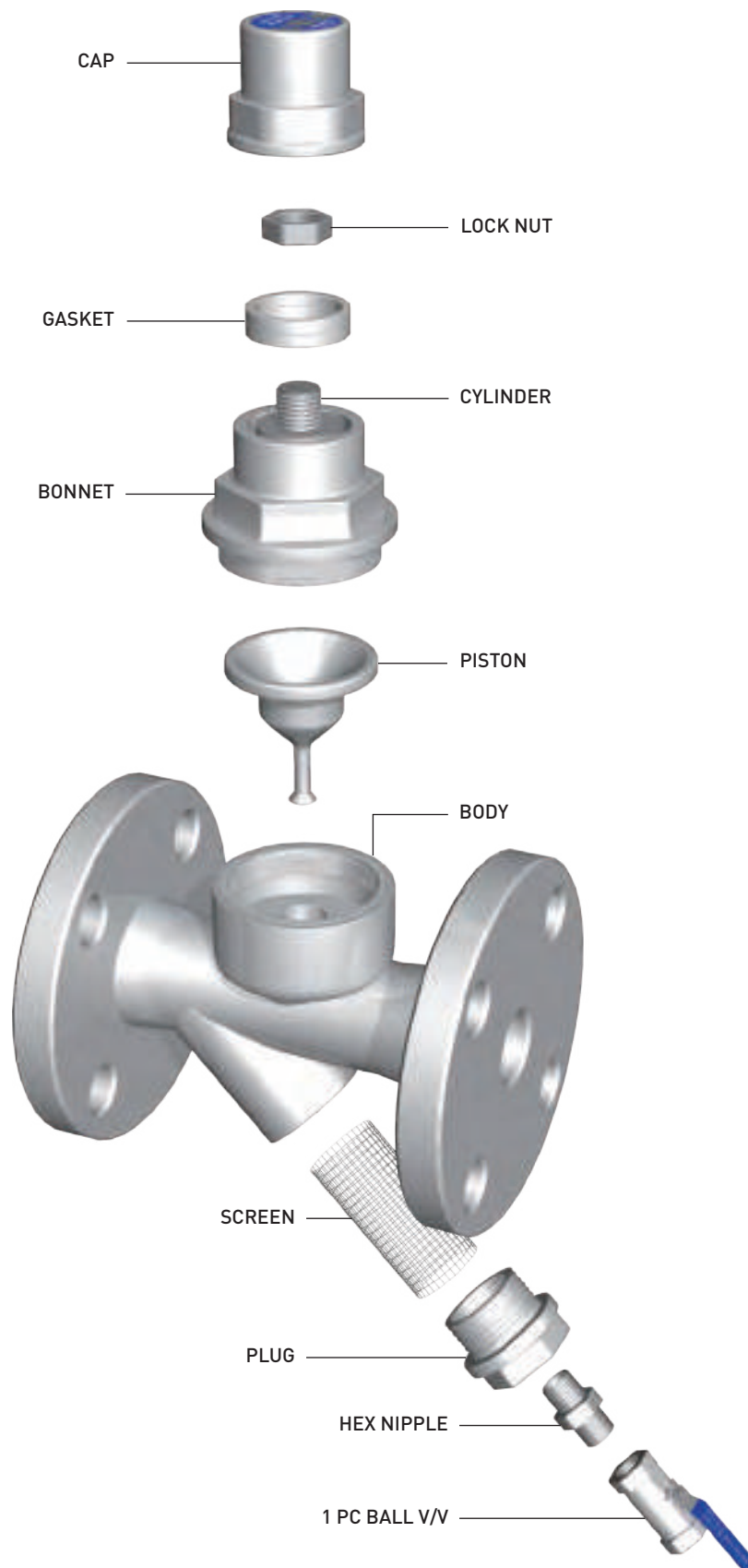
- PART LIST FOR PISTON TYPE STEAM TRAP
- DIMENSION & WEIGHT LIST FOR PISTON TYPE STEAM TRAP

STEAM TRAP



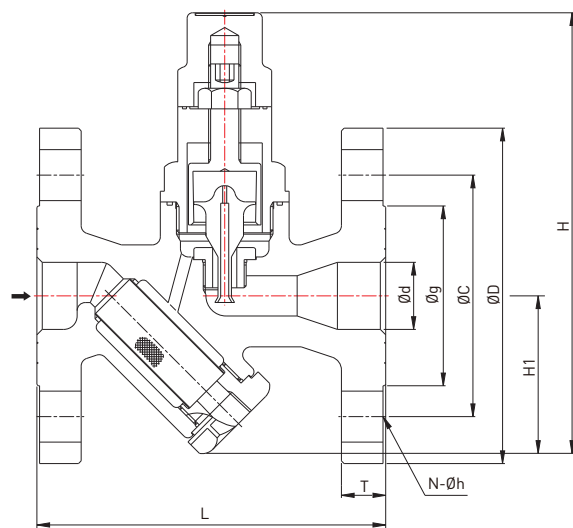
PISTON TYPE STEAM TRAP

PART LIST FOR PISTON TYPE STEAM TRAP



DIMENSION & WEIGHT LIST

PISTON TYPE STEAM TRAP (MODEL : SPTP-2F)



SPECIFICATION

Working Pressure (kgf/cm ²)	0.35 ~ 16	
Working Temperature	MAX. 220°C	
Working Fluid	Steam	
Connection	JIS Flanged	
Material	Body	Cast Steel / Stainless Steel
	Trim	Stainless Steel

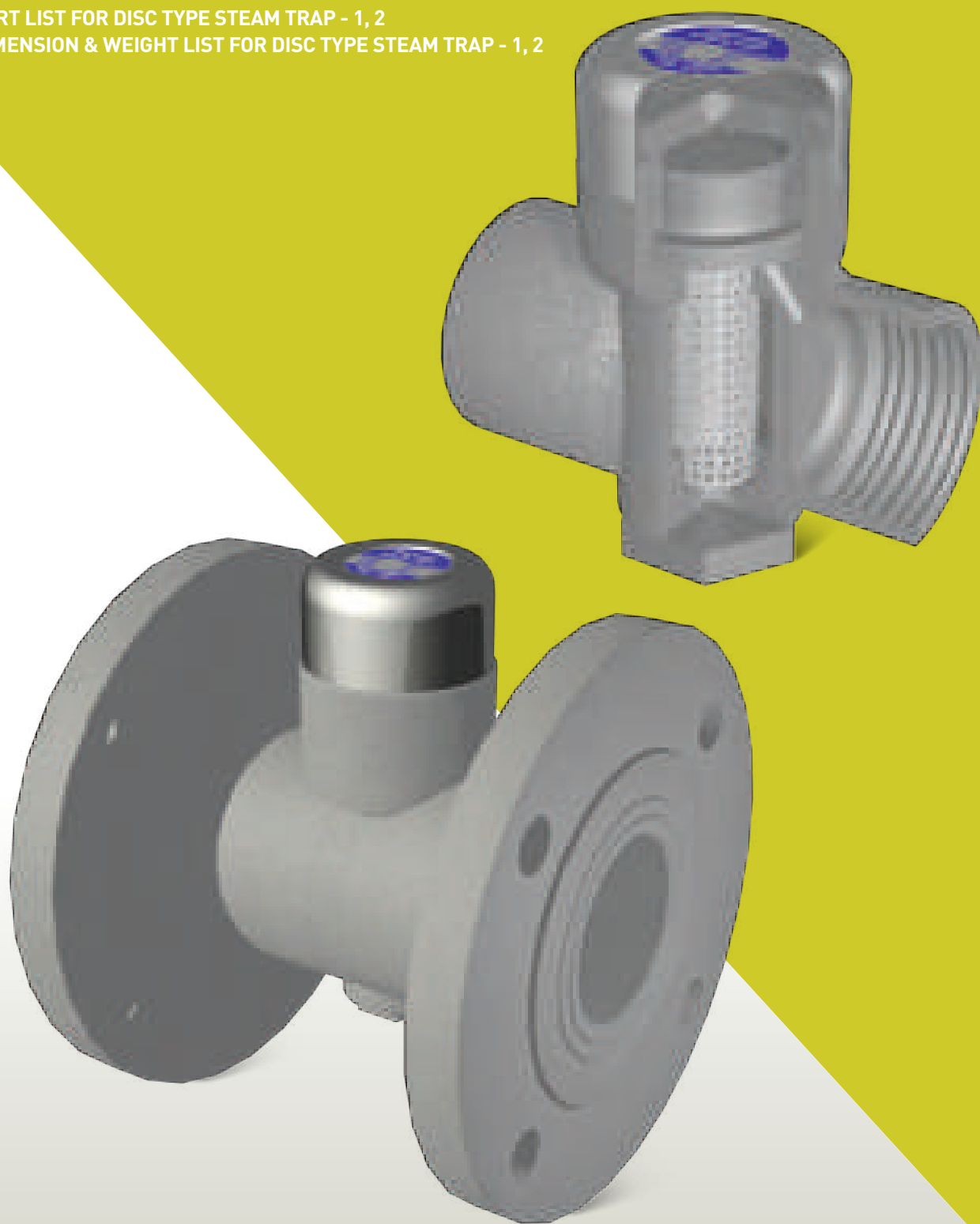
DIMENSION

UNIT(mm)

SIZE	PRESSURE (FLANGE)	Ød	L	H1	H	FLANGE JIS B 2210					WEIGHT (kg)
						ØD	ØC	Øg	T	N-Øh	
25A	10K FF, 16K FF	25	130	59	165	125	90	-	14	4-19	4.2
	10K RF, 16K RF	25	130	59	165	125	90	67	14	4-19	4.2

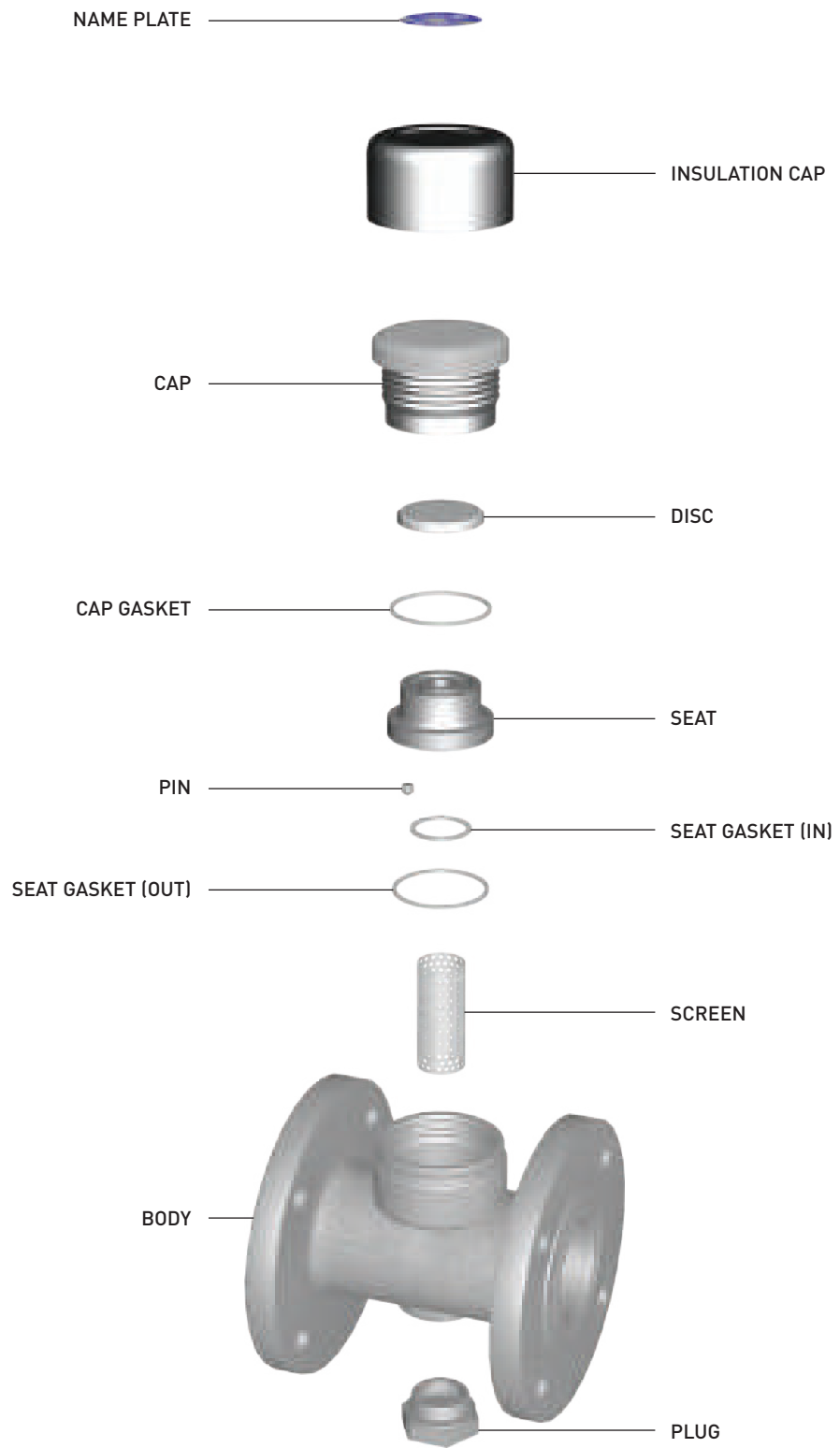
STEAM TRAP + DISC TYPE STEAM TRAP

- PART LIST FOR DISC TYPE STEAM TRAP - 1, 2
- DIMENSION & WEIGHT LIST FOR DISC TYPE STEAM TRAP - 1, 2



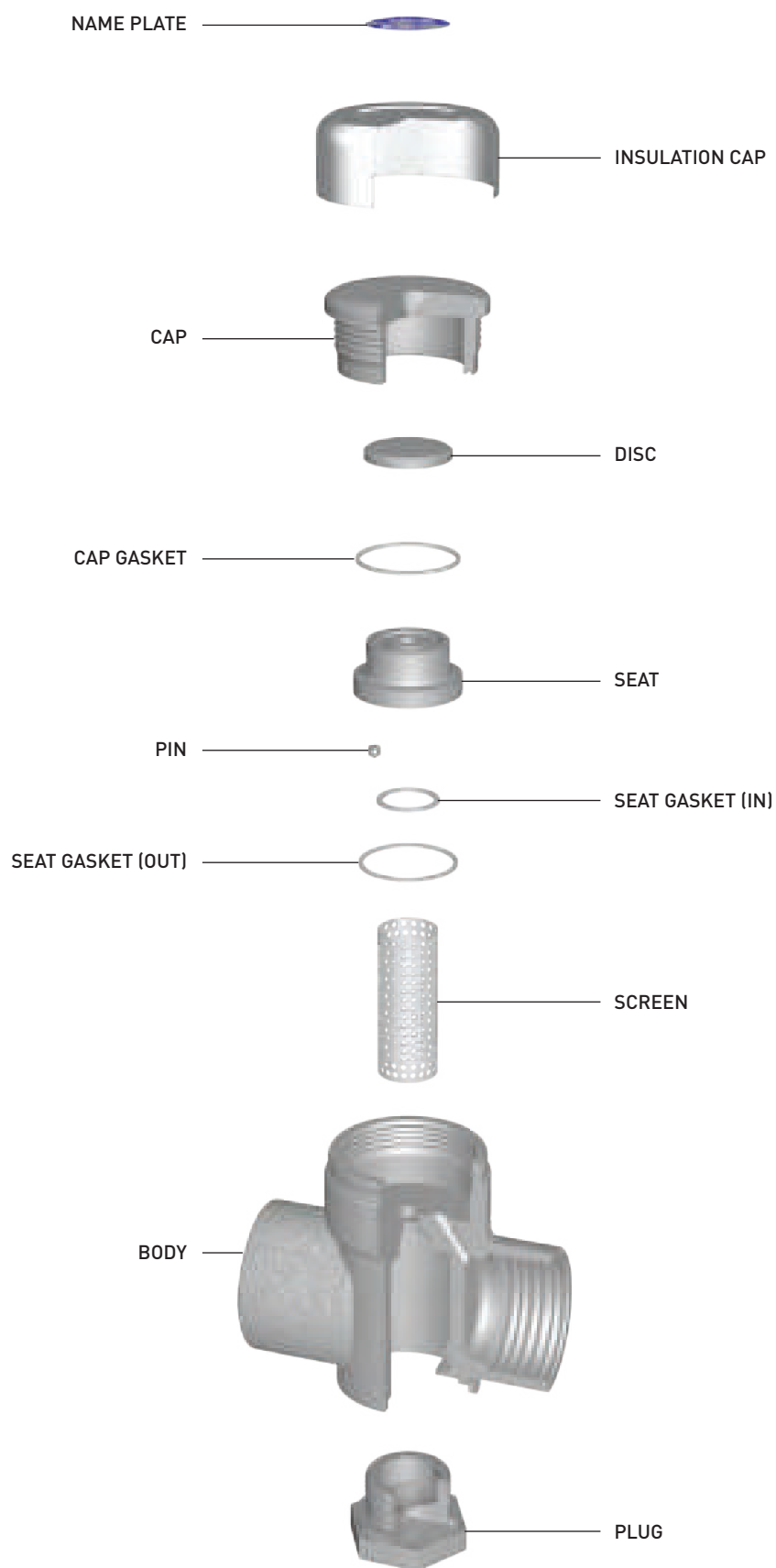
DISC TYPE STEAM TRAP-1

PART LIST FOR DISC TYPE STEAM TRAP - 1



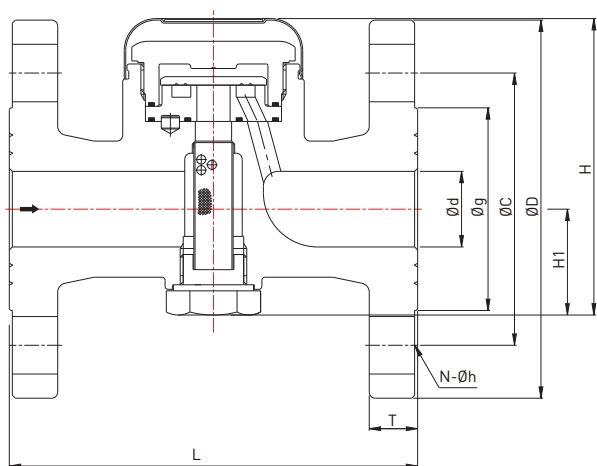
DISC TYPE STEAM TRAP-2

PART LIST FOR DISC TYPE STEAM TRAP - 2



DIMENSION & WEIGHT LIST

DISC TYPE STEAM TRAP-1 (MODEL : SPTD-4F)



SPECIFICATION

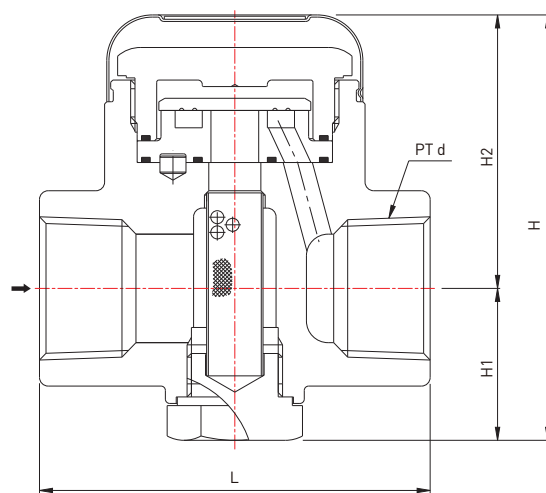
Working Pressure (kgf/cm ²)	0.35 ~ 20	
Working Temperature	MAX. 220°C	
Working Fluid	Steam	
Connection	JIS 10K, 20K Flanged	
Material	Body	Stainless Steel
	Trim	Stainless Steel

DIMENSION

UNIT(mm)

SIZE	Ød	L	H1	H	FLANGE JIS B 2210 20K RF				
					ØD	ØC	Øg	T	N-Øh
15A	15	130	35	98	95	70	51	14	4-15
20A	20	130	35	98	100	75	56	16	4-15
25A	25	135	35	98	125	90	67	16	4-19

DISC TYPE STEAM TRAP-2 (MODEL : SPTD-4S)



SPECIFICATION

Working Pressure (kgf/cm ²)	0.35 ~ 20	
Working Temperature	MAX. 220°C	
Working Fluid	Steam	
Connection	PT Screwed	
Material	Body	Stainless Steel
	Trim	Stainless Steel

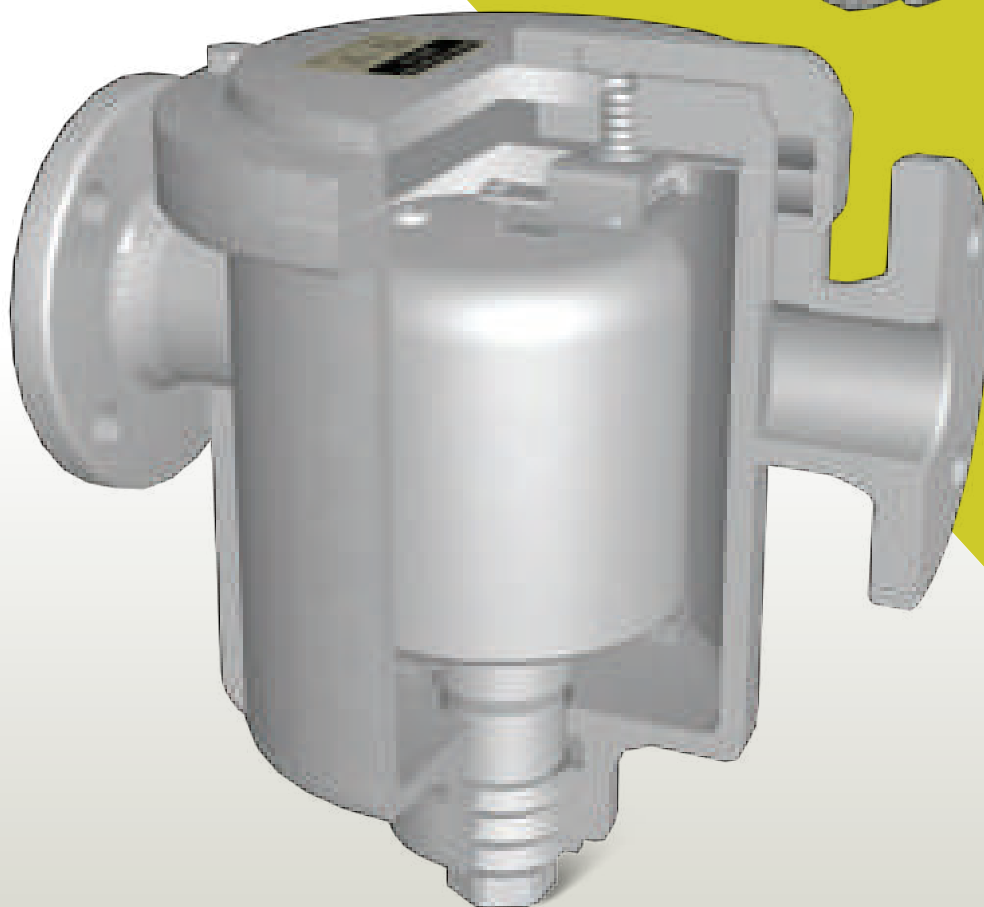
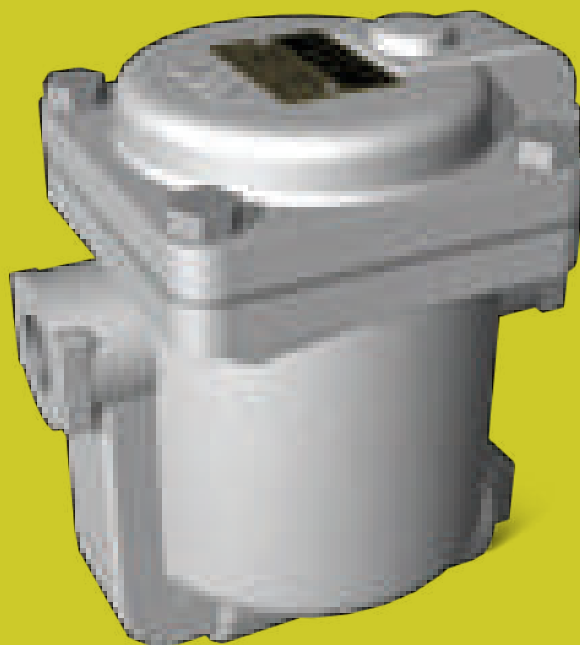
DIMENSION

UNIT(mm)

SIZE	L	H1	H2	H	PT d	WEIGHT (kg)
15A	80	34	60	94	½"	1.4
20A	80	34	60	94	¾"	1.4
25A	90	34	63	97	1"	1.4

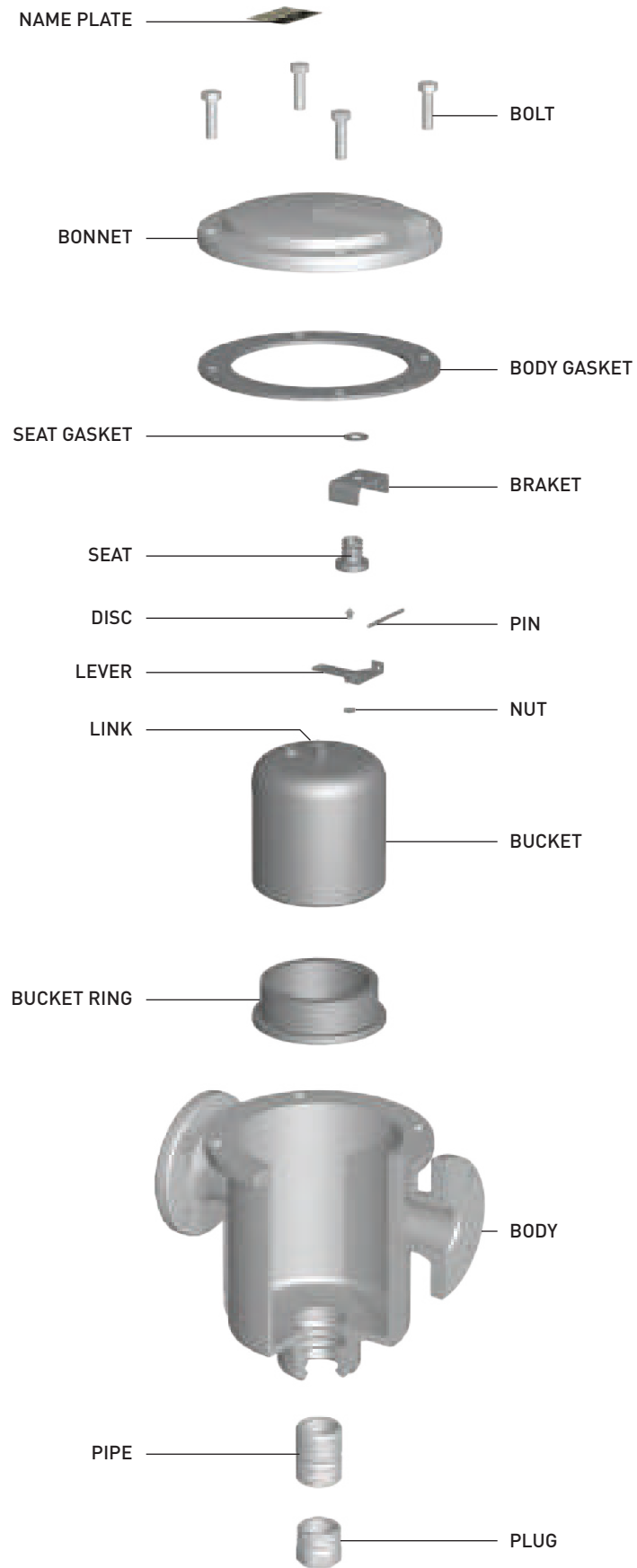
STEAM TRAP + BUCKET TYPE STEAM TRAP

- PART LIST FOR BUCKET TYPE STEAM TRAP - 1, 2
- DIMENSION LIST FOR BUCKET TYPE STEAM TRAP - 1, 2



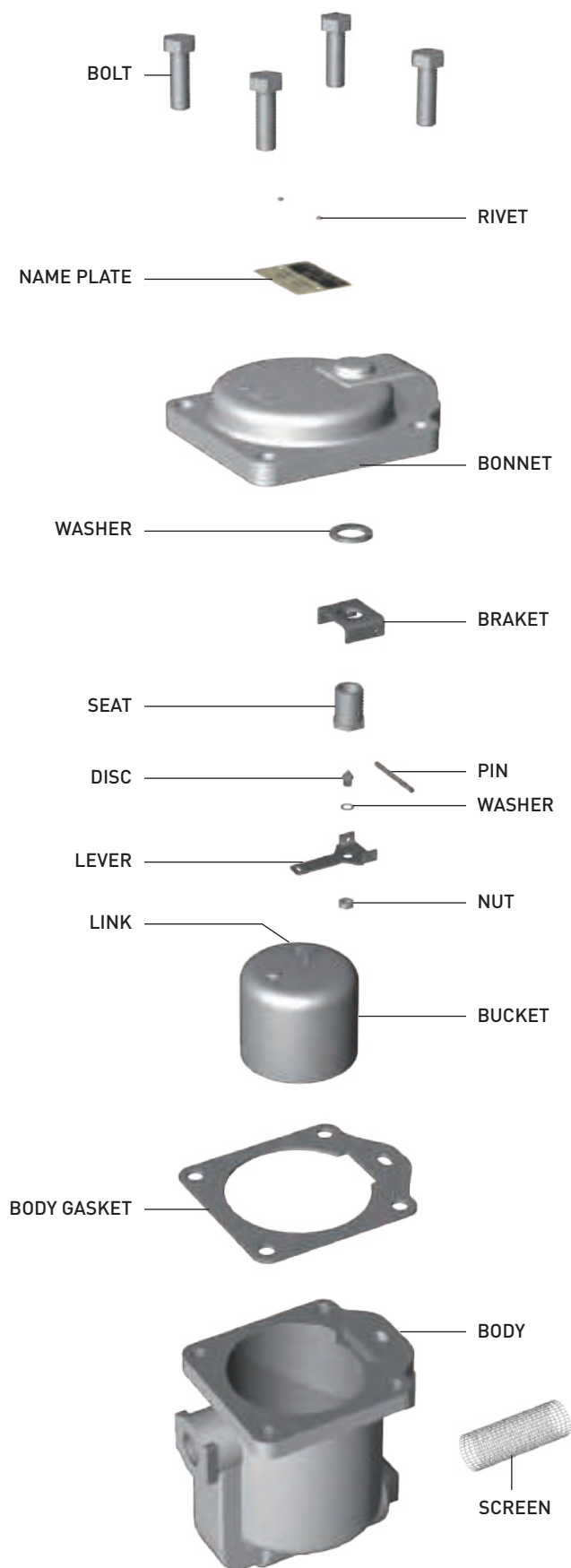
BUCKET TYPE STEAM TRAP-1

PART LIST FOR BUCKET TYPE STEAM TRAP - 1



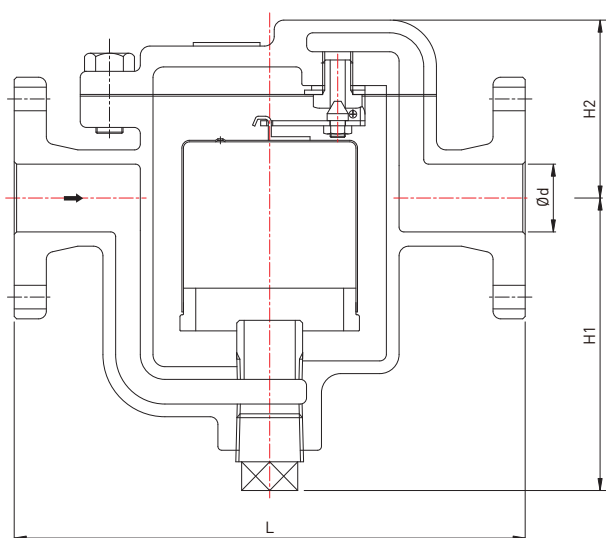
BUCKET TYPE STEAM TRAP-2

PART LIST FOR BUCKET TYPE STEAM TRAP - 2



DIMENSION LIST

BUCKET TYPE STEAM TRAP-1 (MODEL : SPTB-1F)



SPECIFICATION

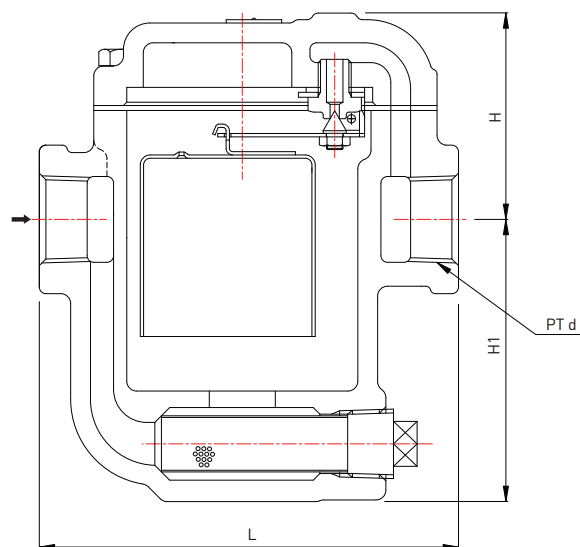
Working Pressure (kgf/cm ²)	0.35 ~ 8.16	
Working Temperature	MAX. 220°C	
Working Fluid	Steam	
Connection	JIS 10K Flanged	
Material	Body	Ductile Cast Iron
	Trim	Stainless Steel

DIMENSION

UNIT(mm)

SIZE	Ød	L	H1	H2	FLANGE
32A	32	250	190	90	JIS B 2210 10K FF
40A	40	250	190	90	
50A	50	290	200	100	

BUCKET TYPE STEAM TRAP-2 (MODEL : SPTB-1S)



SPECIFICATION

Working Pressure (kgf/cm ²)	0.35 ~ 8.16	
Working Temperature	MAX. 220°C	
Working Fluid	Steam	
Connection	PT Screwed	
Material	Body	Ductile Cast Iron
	Trim	Stainless Steel

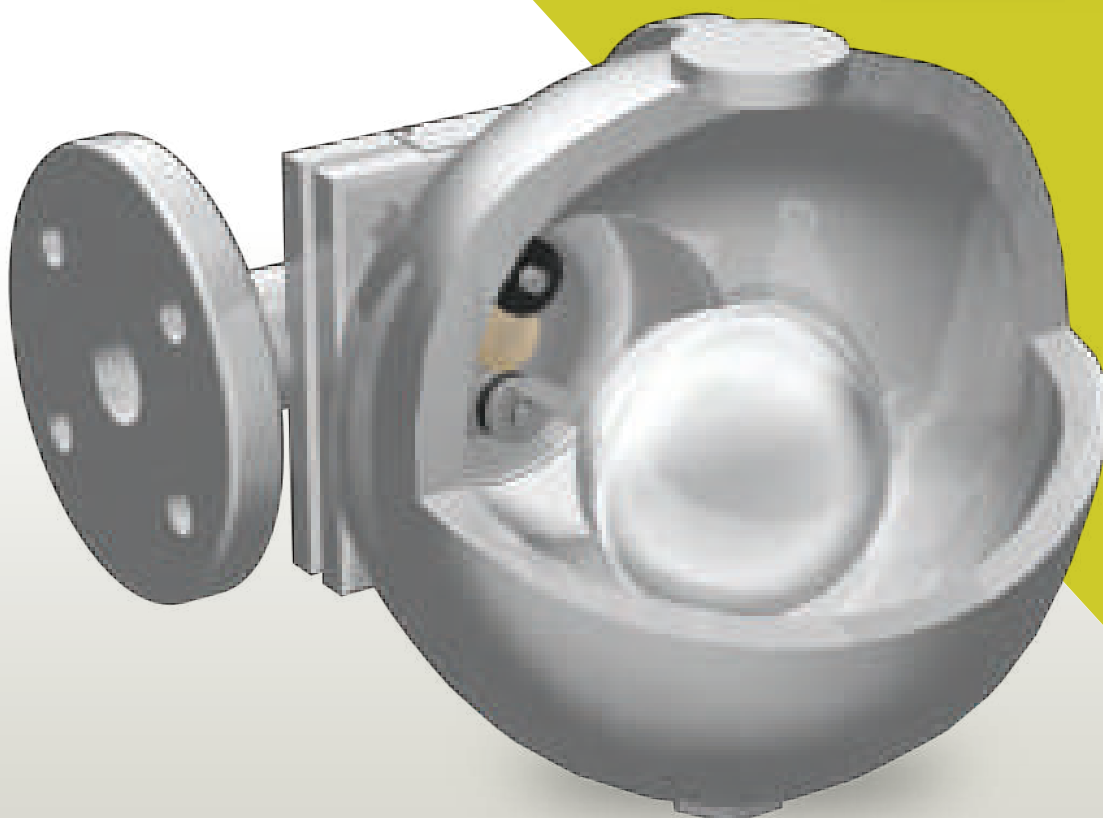
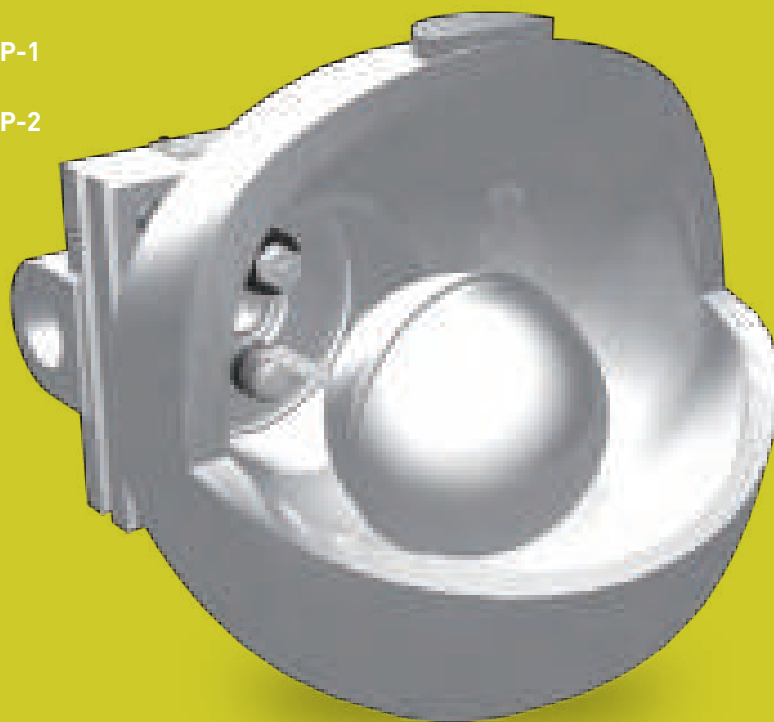
DIMENSION

UNIT(mm)

SIZE	L	H	H1	PT d
15A	127	70	88	PT ½"
20A	127	70	88	PT ¾"
25A	137	77	94	PT 1"

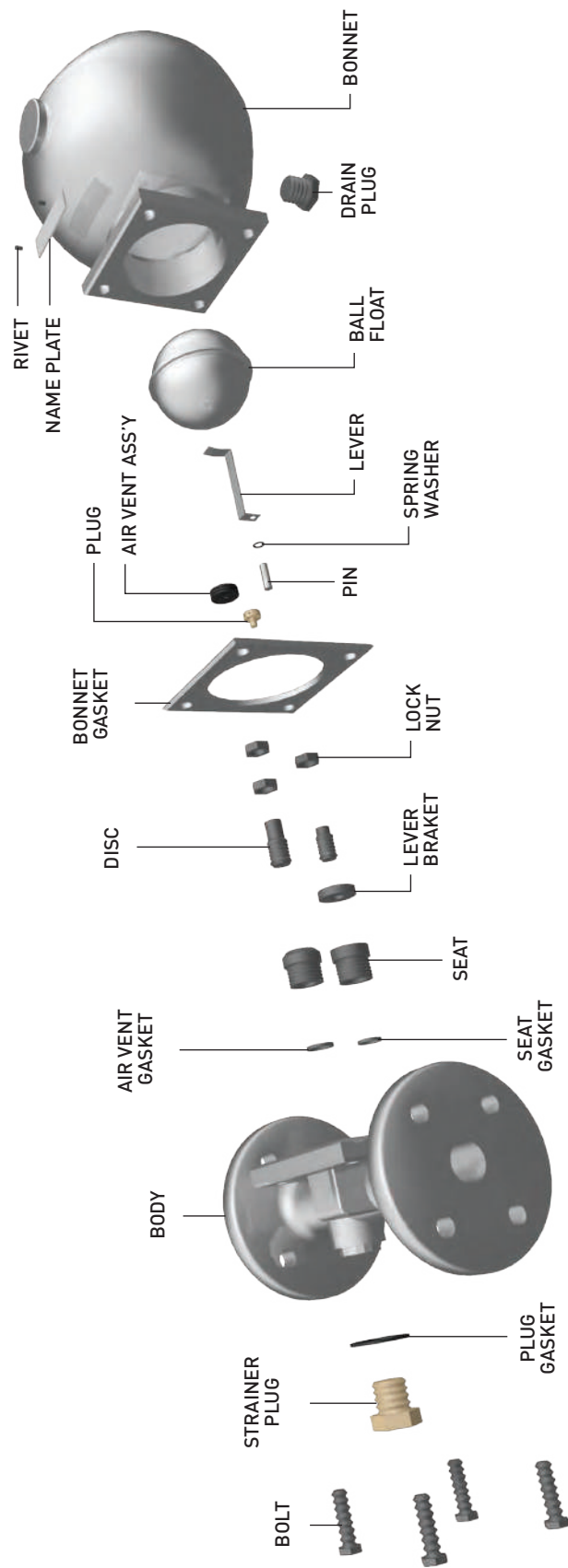
STEAM TRAP + FLOAT TYPE STEAM TRAP

- PART LIST FOR FLOAT TYPE STEAM TRAP-1
- DIMENSION LIST FOR FLOAT TYPE STEAM TRAP-1
- PART LIST FOR FLOAT TYPE STEAM TRAP-2
- DIMENSION LIST FOR FLOAT TYPE STEAM TRAP-2



FLOAT TYPE STEAM TRAP-1

PART LIST FOR FLOAT TYPE STEAM TRAP-1

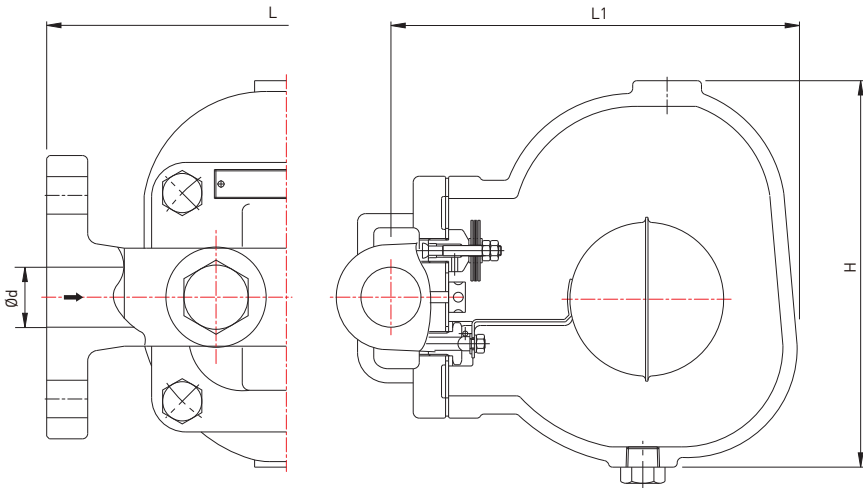


DIMENSION LIST

FLOAT TYPE

STEAM TRAP-1

(MODEL : SPTF-1F)



SPECIFICATION

Working Pressure (kgf/cm ²)	0.35 ~ 4.5, 10, 14	
Working Temperature	MAX. 220℃	
Working Fluid	Steam	
Connection	JIS 10K Flanged	
Material	Body	Ductile Cast Iron
	Trim	Stainless Steel

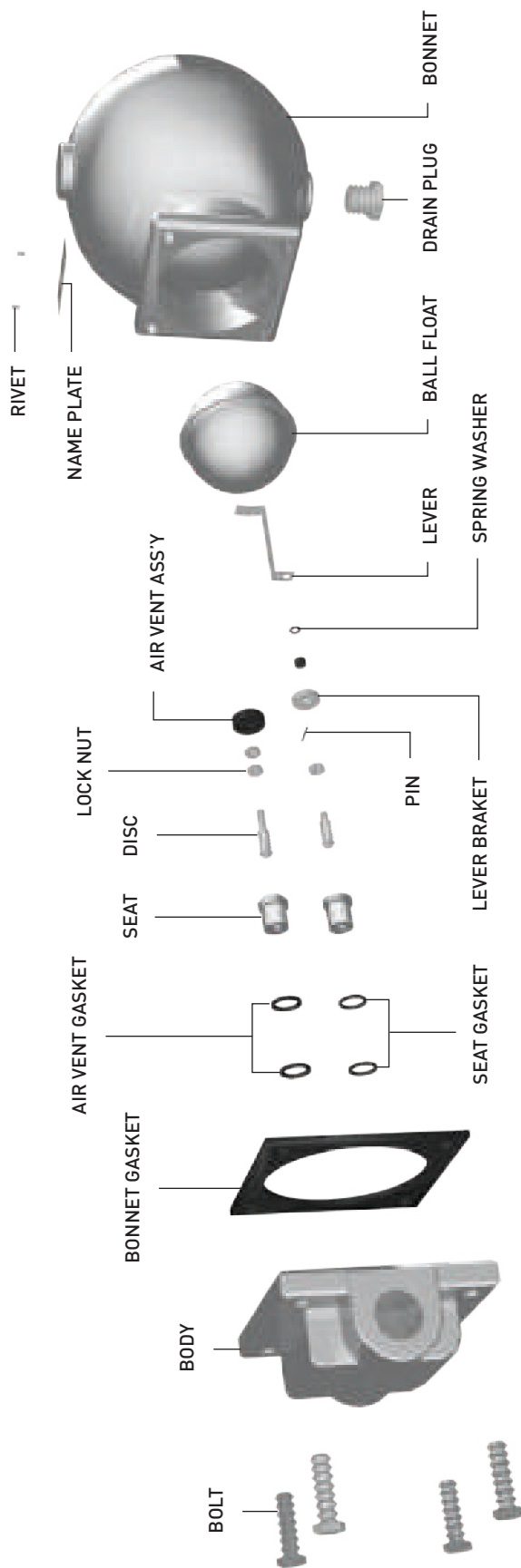
DIMENSION

UNIT(mm)

SIZE	Ød	L	L1	H	FLANGE
15A	15	200	110	170	FLANGE JIS B 2210 10K, 16K FF
20A	20	200	110	170	
25A	25	215	190	185	
32A	32	320	240	295	
40A	40	320	240	295	
50A	50	360	240	310	

FLOAT TYPE STEAM TRAP-2

PART LIST FOR FLOAT TYPE STEAM TRAP-2

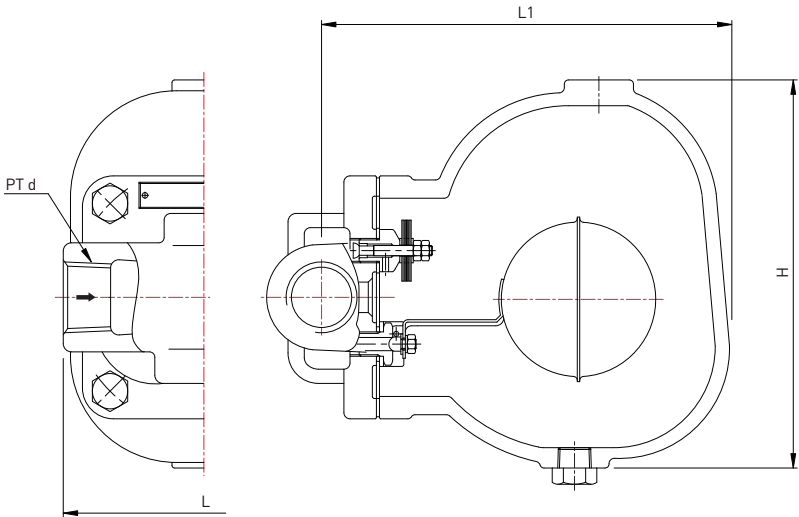


DIMENSION LIST

FLOAT TYPE

STEAM TRAP-2

(MODEL : SPTF-1S)



SPECIFICATION

Working Pressure (kgf/cm ²)	0.35 ~ 4.5, 10, 14	
Working Temperature	MAX. 220℃	
Working Fluid	Steam	
Connection	PT Screwed	
Material	Body	Ductile Cast Iron
	Trim	Stainless Steel

DIMENSION

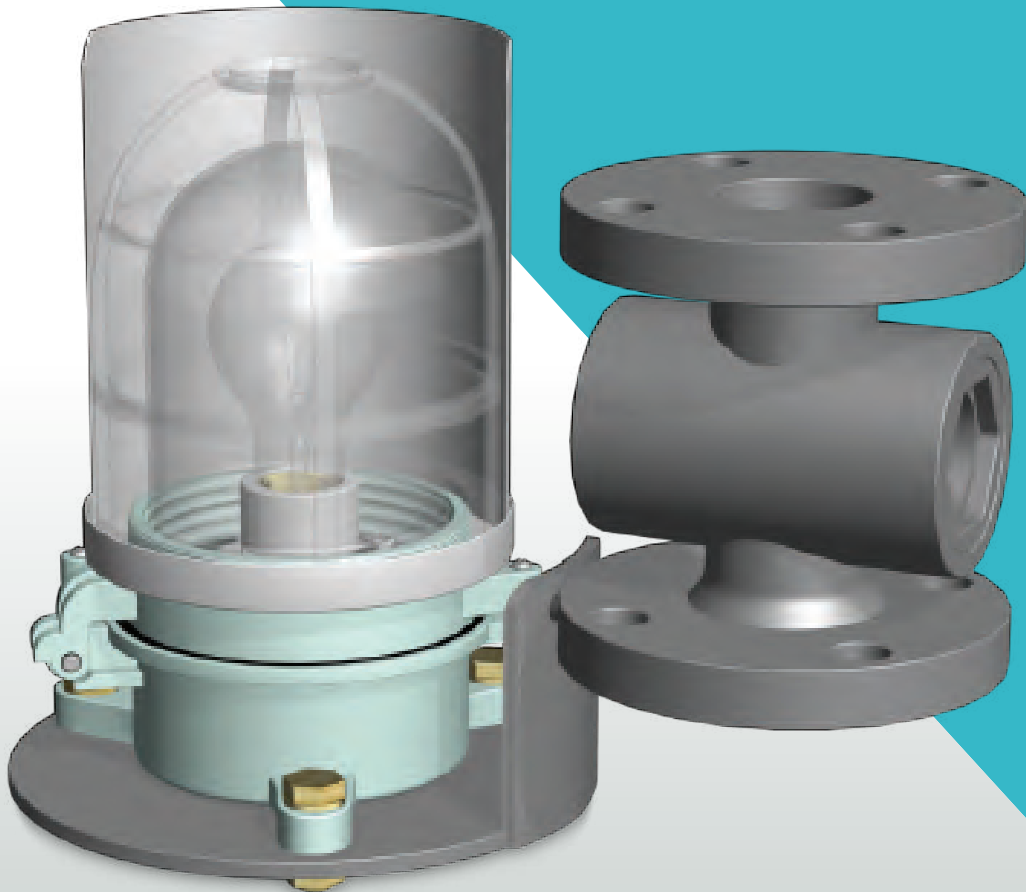
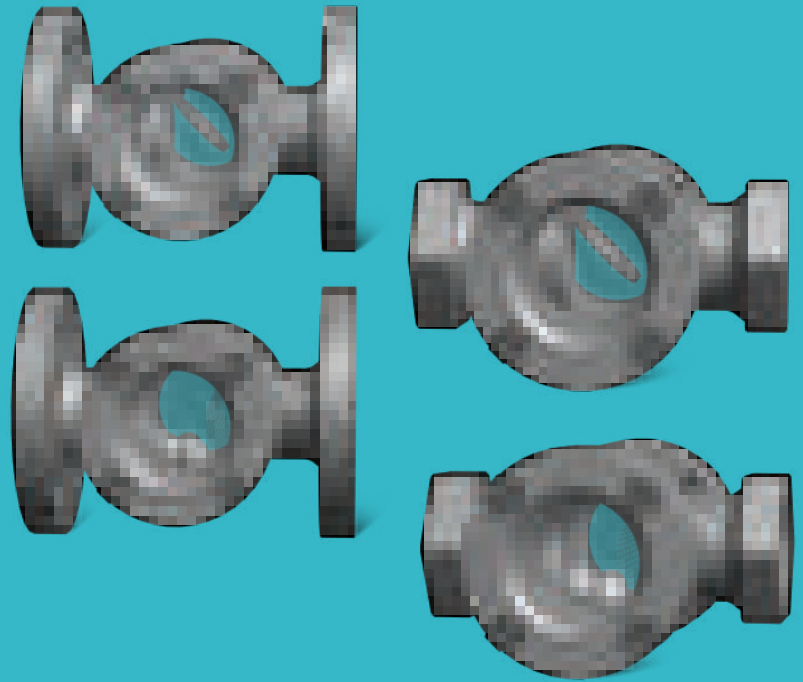
UNIT(mm)

SIZE	L	L1	H	PT d
15A	120	155	120	PT ½"
20A	120	155	120	PT ¾"
25A	120	190	185	PT 1"
32A	270	295	240	PT 1¼"
40A	270	295	240	PT 1½"
50A	300	310	260	PT 2"

SIGHT GLASS⁺

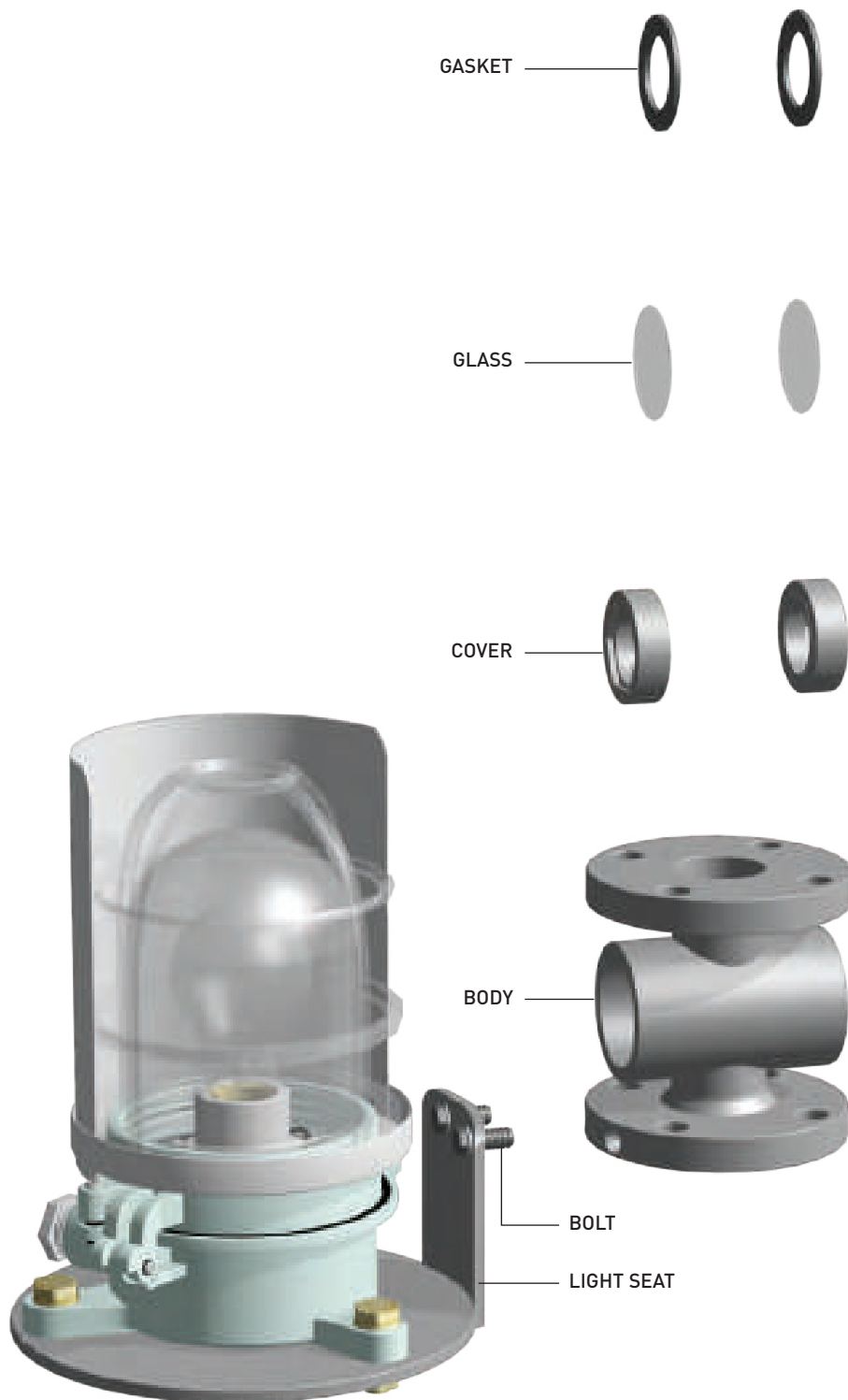
SIGHT GLASS

- FLANGED END FLAPPER TYPE
- FLANGED END BALL TYPE
- SCREWED END FLAPPER TYPE
- SCREWED END BALL TYPE



SIGHT GLASS WITH LIGHT

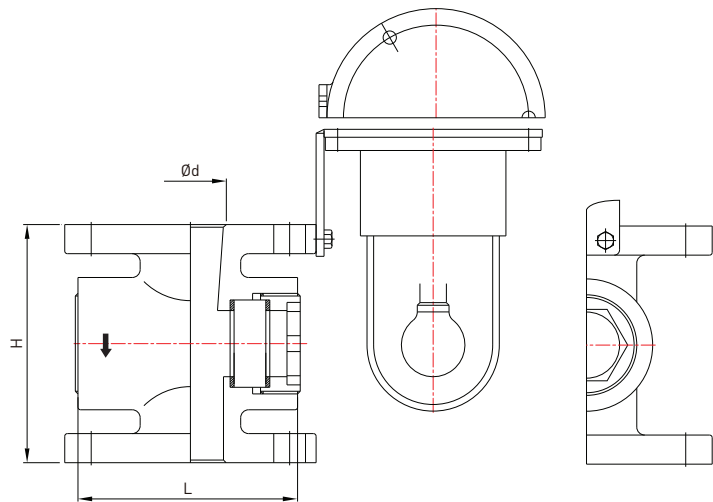
PART LIST FOR SIGHT GLASS WITH LIGHT



DIMENSION LIST

SIGHT GLASS

SIGHT GLASS WITH LIGHT (MODEL : SPDG-5F)



SPECIFICATION

Working Pressure (kgf/cm ²)	5	
Working Temperature	MAX. 150°C	
Connection	JIS 5K Flanged	
Type	Light Type	
Materials	Body	Ductile Cast Iron
	Trim	Heat Treatment Glass

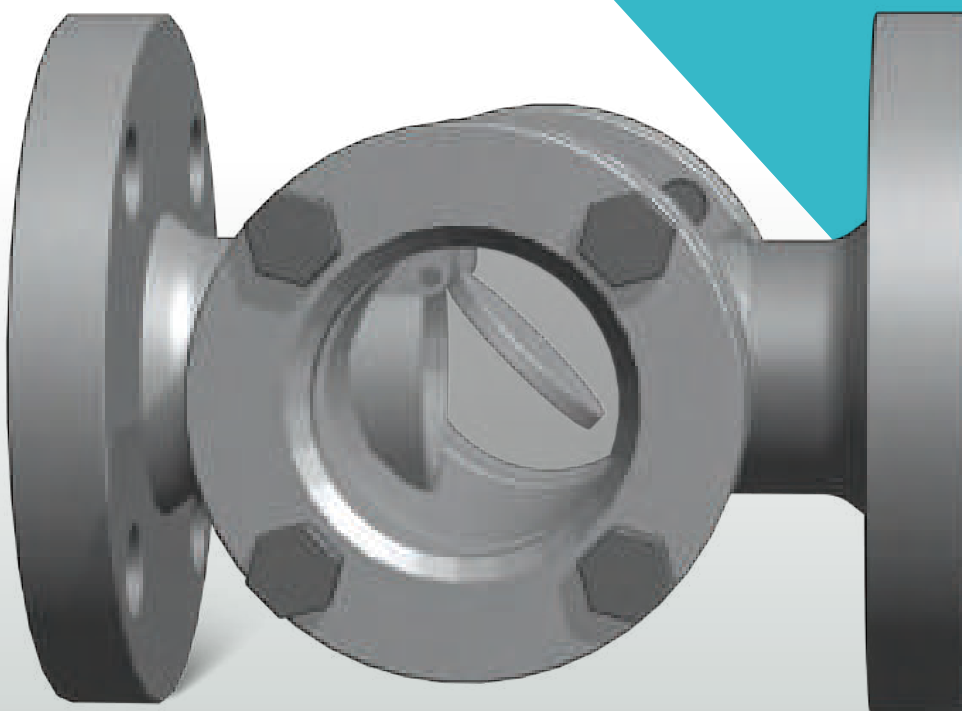
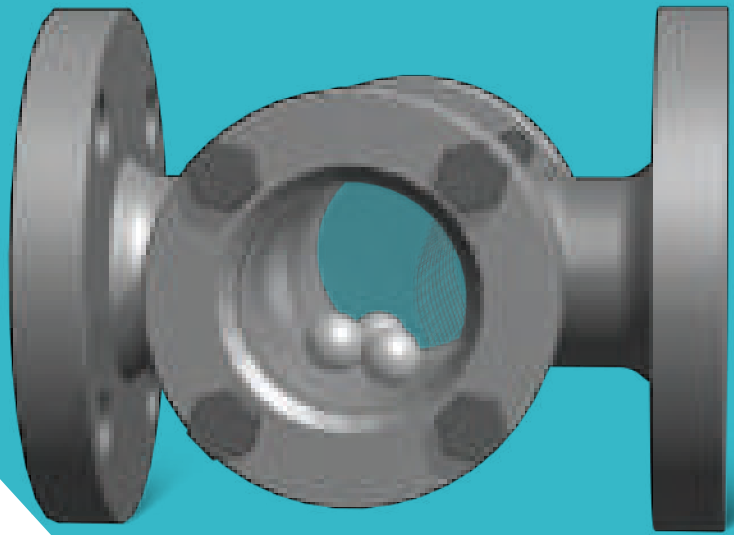
DIMENSION

UNIT(mm)

SIZE	Ød	L	H	Connection
25A	25	90	86	JIS 5K Flanged
40A	40	100	102	
50A	50	115	115	
65A	65	160	140	
80A	80	180	158	
100A	100	210	178	
125A	125	245	208	
150A	150	310	232	
200A	200	380	294	

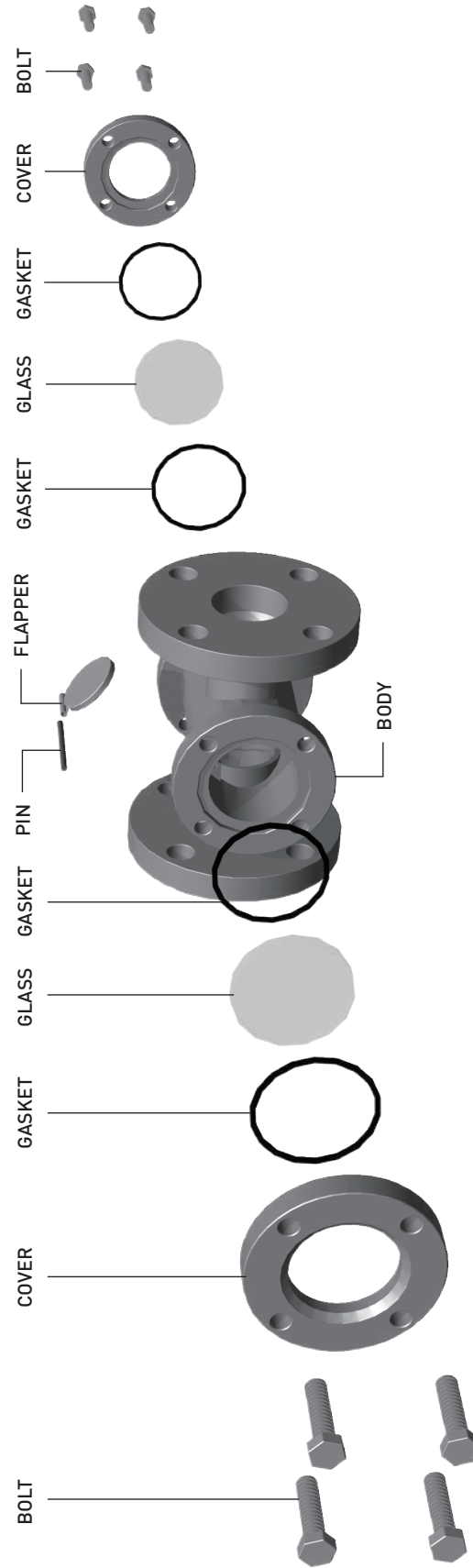
SIGHT GLASS FLANGED END - FLAPPER TYPE - BALL TYPE

- PART LIST FOR FLANGED END FLAPPER TYPE
- PART LIST FOR FLANGED END BALL TYPE
- DIMENSION LIST FOR FLANGED END FLAPPER TYPE / BALL TYPE



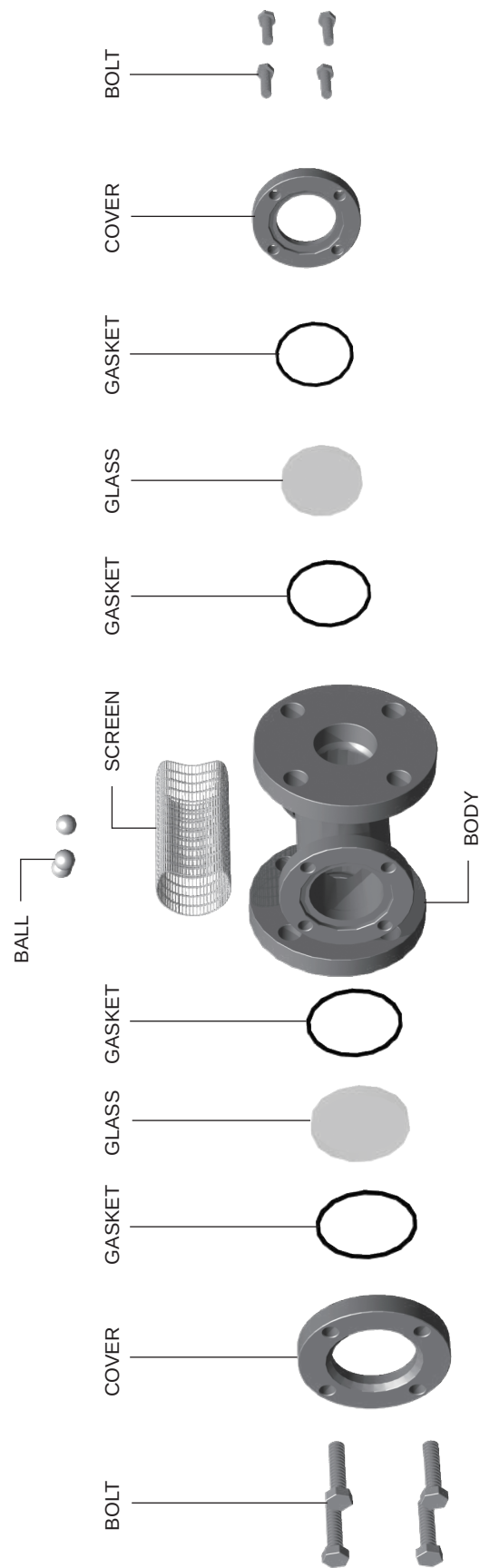
FLANGED END FLAPPER TYPE

PART LIST FOR FLANGED END FLAPPER TYPE



FLANGED END BALL TYPE

PART LIST FOR FLANGED END BALL TYPE

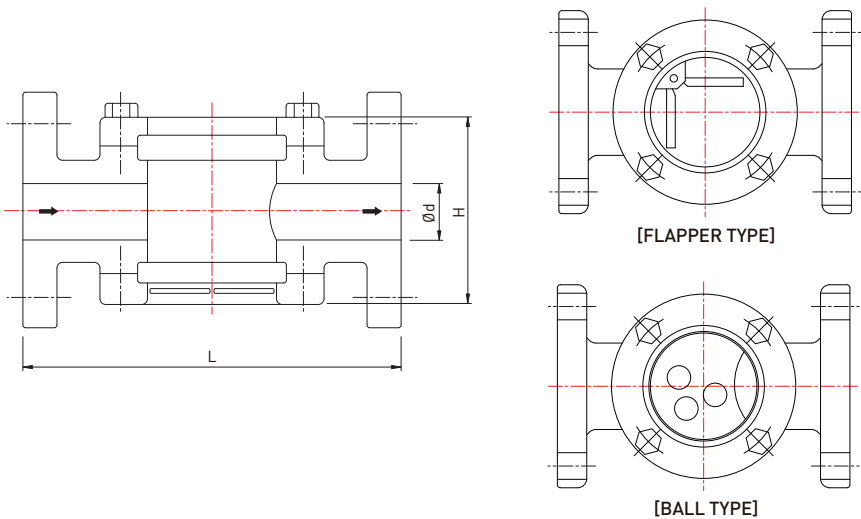


DIMENSION LIST

FLANGED END

(MODEL : SPDG-1F)

- FLAPPER TYPE
- BALL TYPE



SPECIFICATION

Working Pressure (kgf/cm ²)	10	
Working Temperature	MAX. 150°C	
Connection	JIS 10K Flanged	
Type	Double Window Type	
Materials	Body	Ductile Cast Iron
	Trim	Stainless Steel

DIMENSION

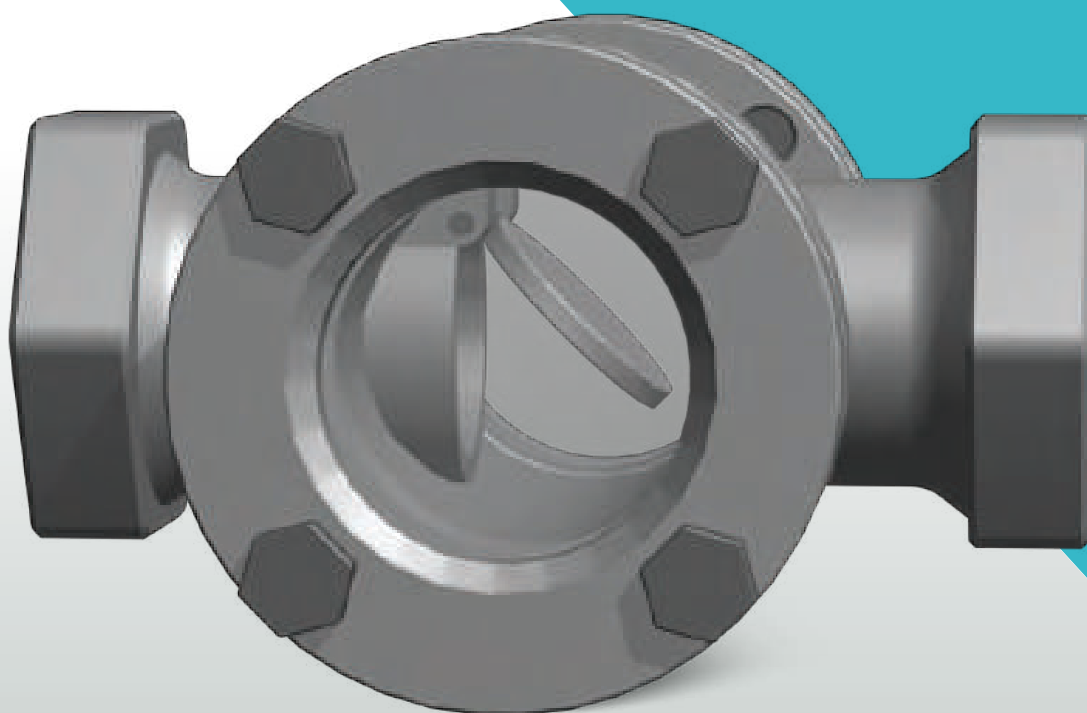
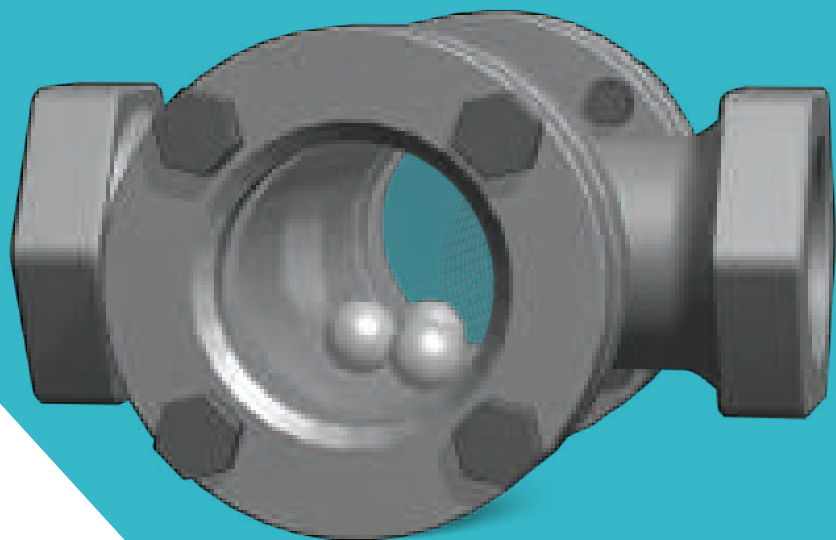
UNIT(mm)

SIZE	Ød	L	H	Connection
15A	PT 1/2"	126	96	JIS 10K Flanged
20A	PT 3/4"	126	96	
25A	PT 1"	126	96	
32A	PT1 1/4"	155	106	
40A	PT1 1/2"	155	106	
50A	PT 2"	161	161	

SIGHT GLASS + SCREWED END

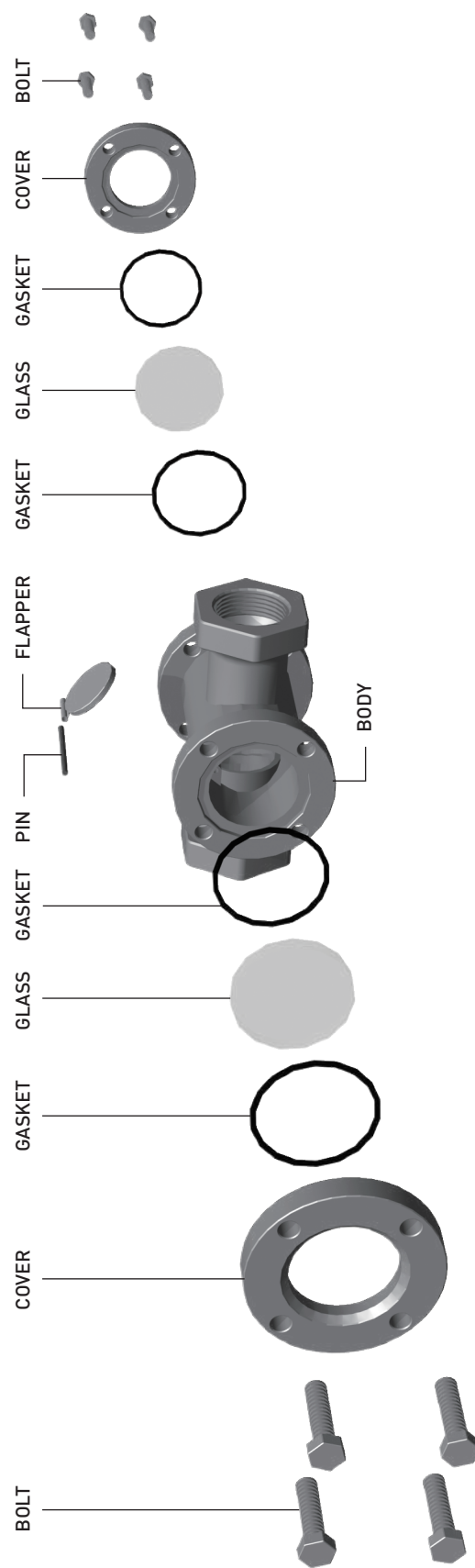
- FLAPPER TYPE
- BALL TYPE

- PART LIST FOR SCREWED END FLAPPER TYPE
- PART LIST FOR SCREWED END BALL TYPE
- DIMENSION LIST FOR SCREWED END FLAPPER TYPE / BALL TYPE



SCREWED END FLAPPER TYPE

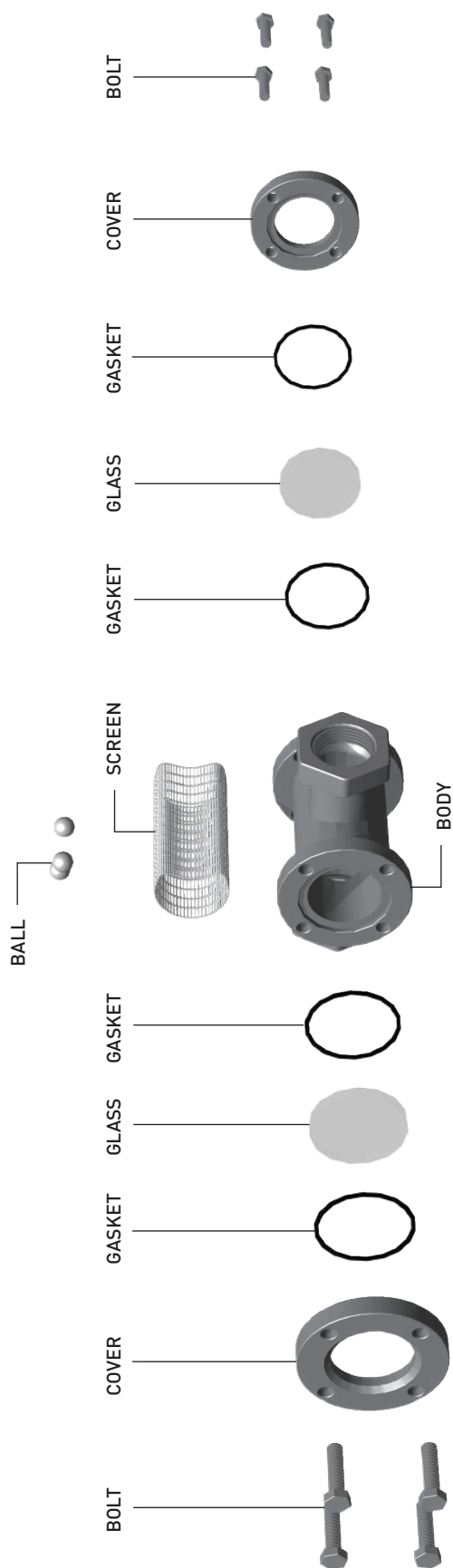
PART LIST FOR SCREWED END FLAPPER TYPE



SIGHT GLASS

SCREWED END BALL TYPE

PART LIST FOR SCREWED END BALL TYPE

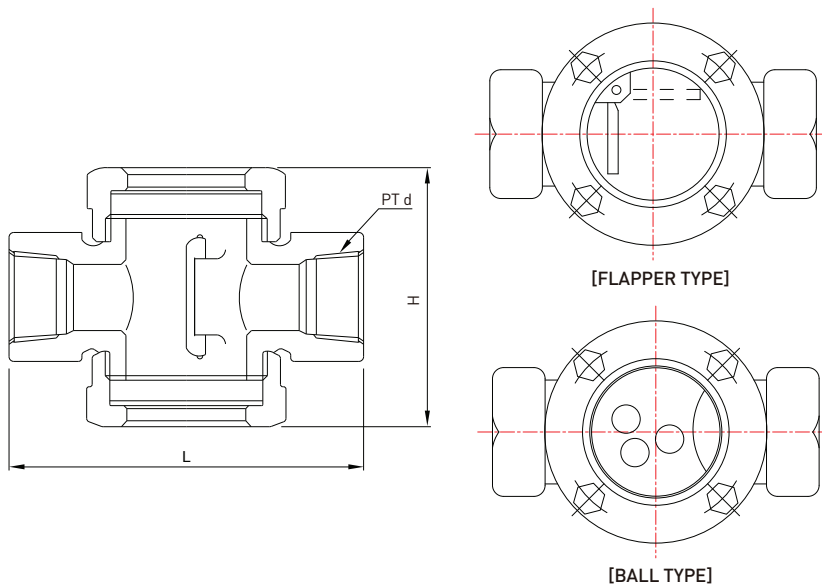


DIMENSION LIST

SCREWED END

(MODEL : SPDG-1S)

- FLAPPER TYPE
- BALL TYPE



SPECIFICATION

Working Pressure (kgf/cm ²)	10	
Working Temperature	MAX. 150°C	
Connection	PT Screwed	
Type	Flapper Type	
Materials	Body	Ductile Cast Iron
	Trim	Stainless Steel

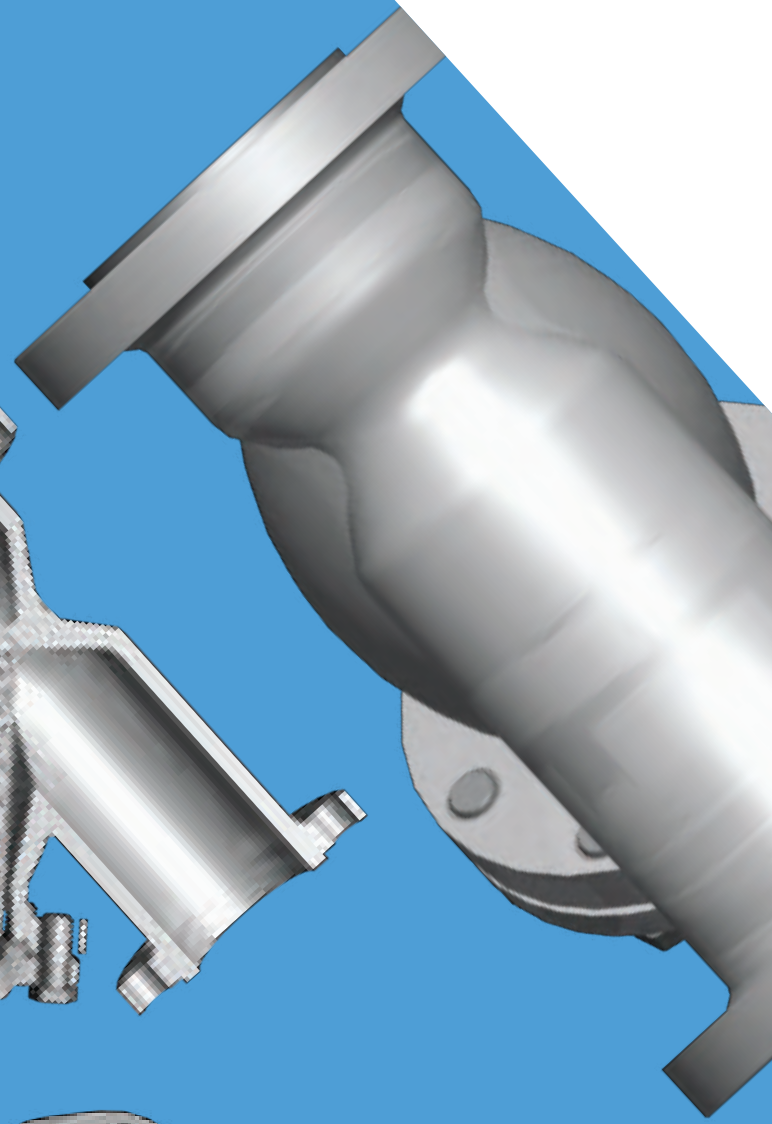
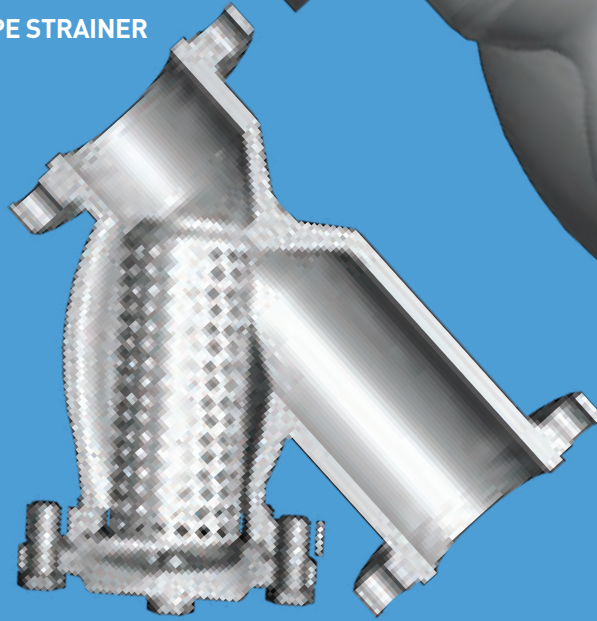
DIMENSION

UNIT(mm)

SIZE	PT d	L	H	Connection
15A	PT 1/2"	126	96	PT Screwed
20A	PT 3/4"	126	96	
25A	PT 1"	126	96	
32A	PT 1 1/4"	155	106	
40A	PT 1 1/2"	155	106	
50A	PT 2"	161	161	

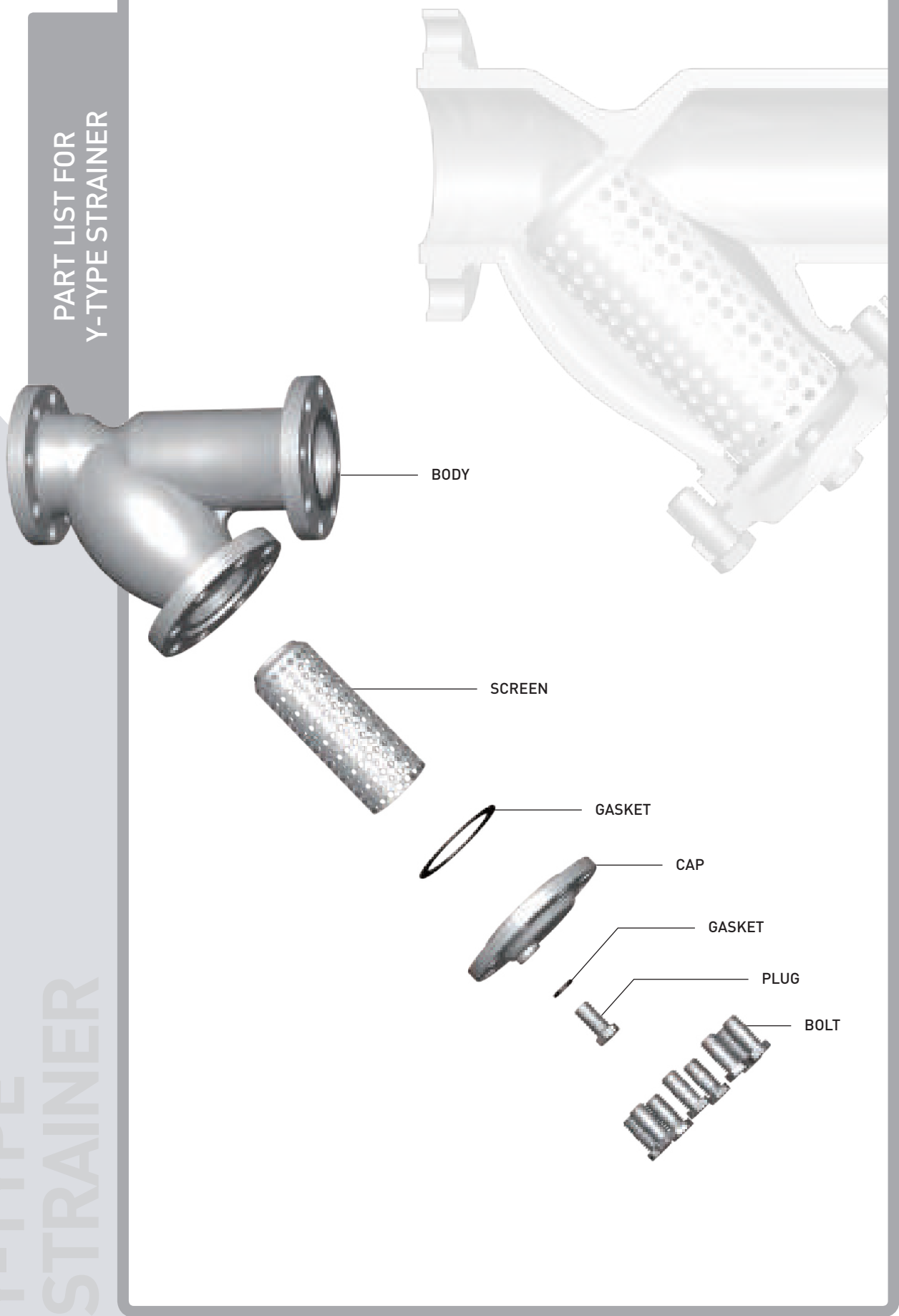
OTHER VALVES + Y-TYPE STRAINER

- PART LIST FOR Y-TYPE STRAINER
- DIMENSION & WEIGHT LIST FOR Y-TYPE STRAINER



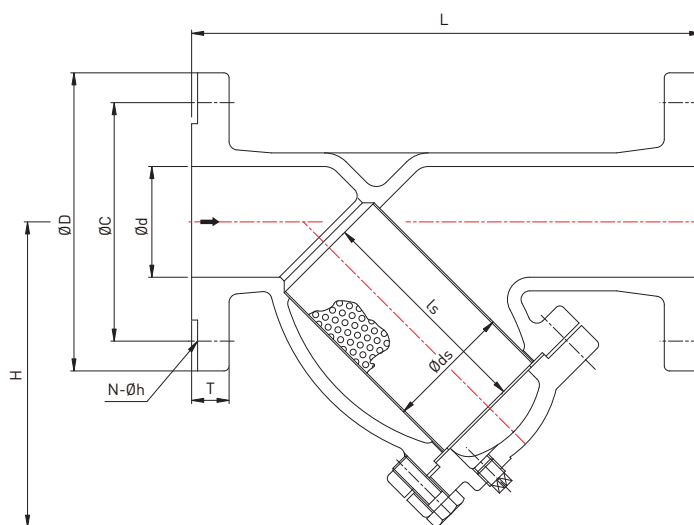
Y-TYPE STRAINER

PART LIST FOR Y-TYPE STRAINER



DIMENSION & WEIGHT LIST

Y-TYPE STRAINER (MODEL : SPFY-1F)



SPECIFICATION

Working Fluid	Steam, Liquid(Water & Oil)	
Working Temperature	MAX. 220℃	
Working Pressure (kgf/cm ²)	10	
Hydrostatic Pressure (kgf/cm ²)	15 (Holding Time : Min. 5 Minute)	
Material	Body	Ductile Cast Iron / Cast Steel / Cast Bronze
	Filter	Stainless Steel 304 / 316

DIMENSION

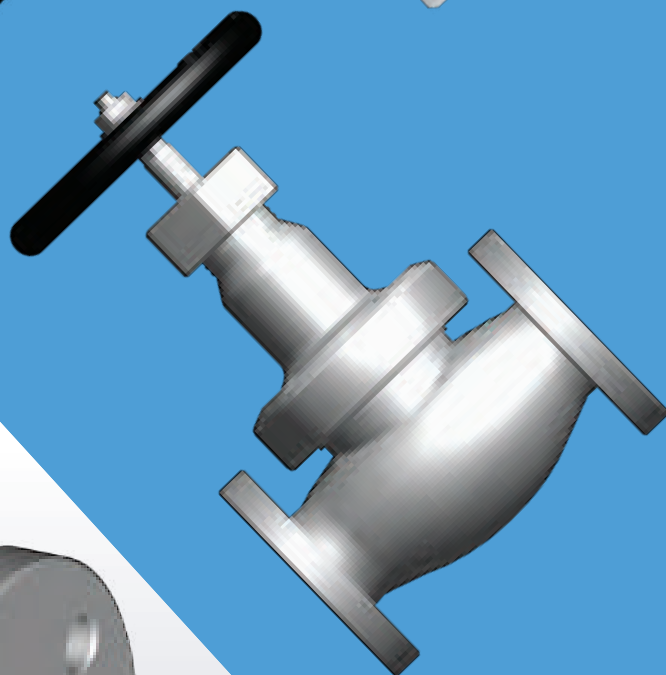
UNIT(mm)

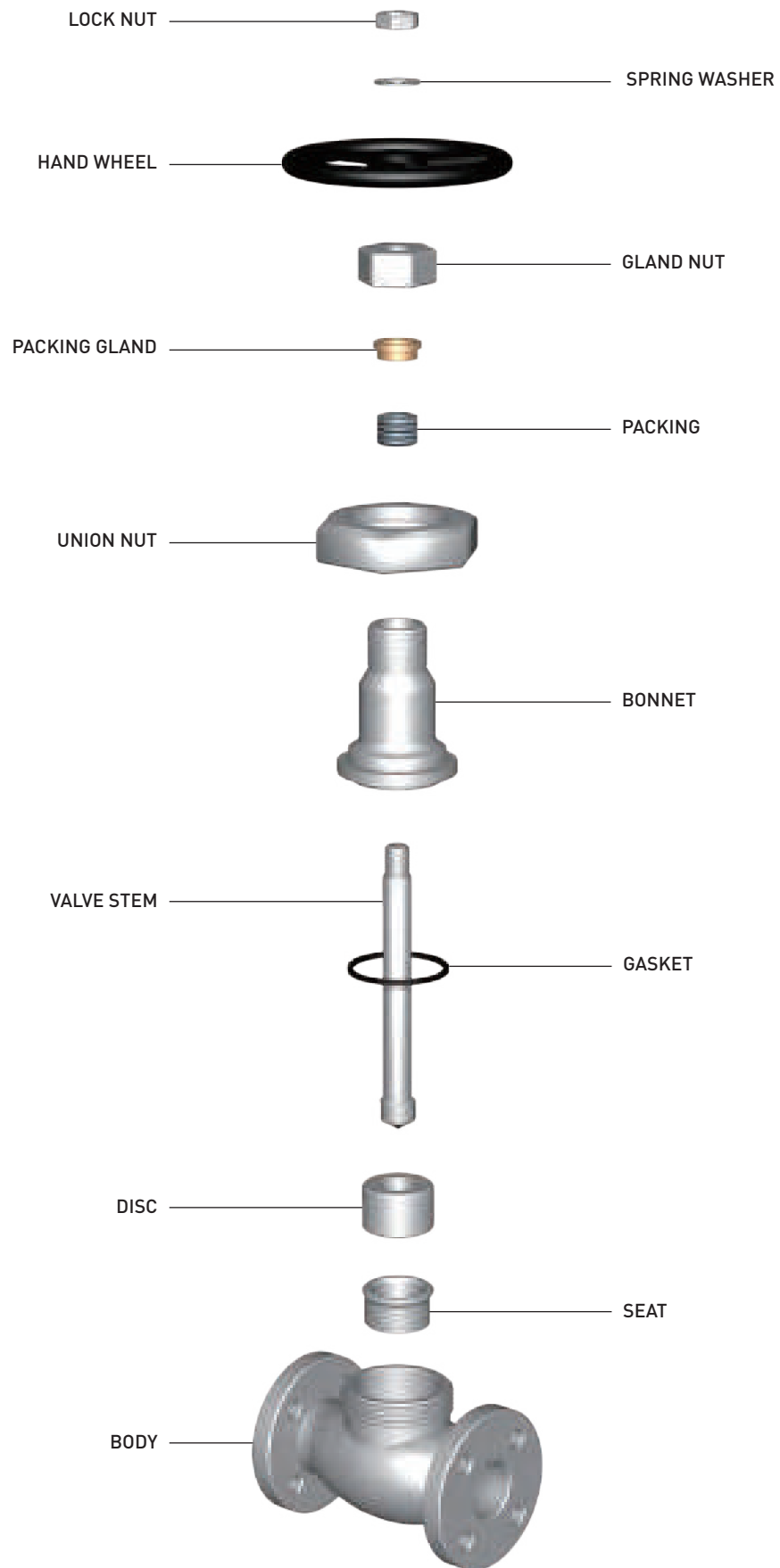
SIZE	Ød	L	H	ls	Øds	FLANGE JIS B 2220 10K RF				WEIGHT (kg)
						ØD	ØC	T	N-Øh	
50A	50	240	160	134	52	155	120	16	4-19	9.9
65A	65	255	155	115	75	175	140	18	4-19	11.9
80A	80	290	190	138	89	185	150	18	8-19	16.3
100A	100	330	215	158	109	210	175	18	8-19	25.0
125A	125	400	290	258	141	250	210	20	8-23	42.7
150A	150	470	300	265	161	280	240	22	8-23	55.8
200A	200	570	400	351	219	330	290	22	12-23	98.2
250A	250	640	440	355	264	400	355	24	12-25	182.5
300A	300	785	545	415	324	445	400	24	16-25	244.6
350A	350	880	600	455	359	490	445	26	16-25	305.3

OTHER VALVES + GLOBE VALVE

- PART LIST FOR GLOBE VALVE
- DIMENSION LIST FOR GLOBE VALVE

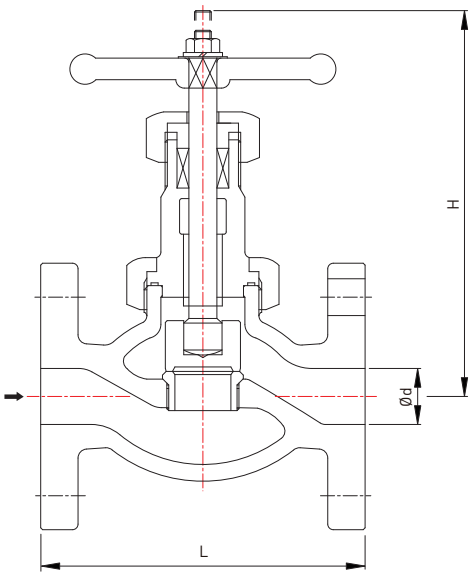
OTHER VALVES





DIMENSION LIST

GLOBE VALVE
(MODEL : SPGV-1F)



SPECIFICATION

Working Pressure (kgf/cm ²)	MAX. 16	
Working Temperature	MAX. 220°C	
Connection	JIS Flanged	
Materials	Body	Ductile Cast Iron
	Trim	Stainless Steel

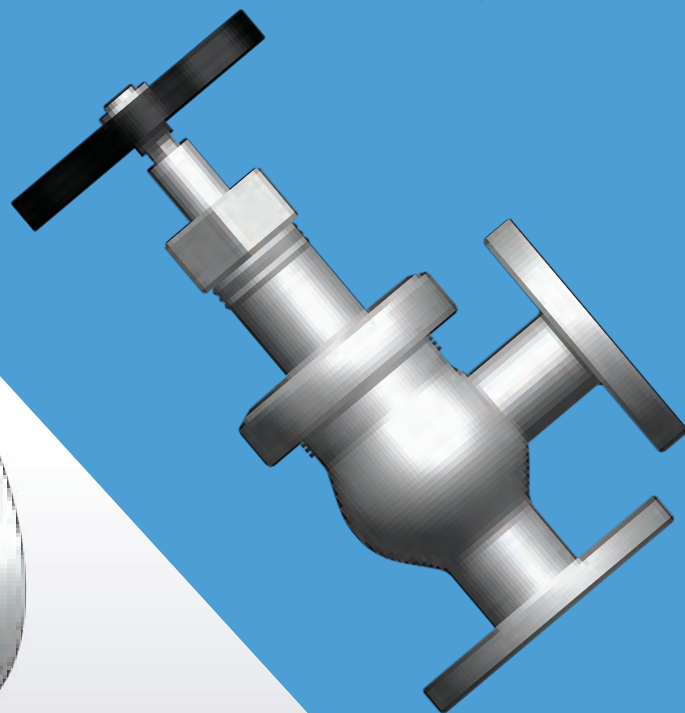
DIMENSION

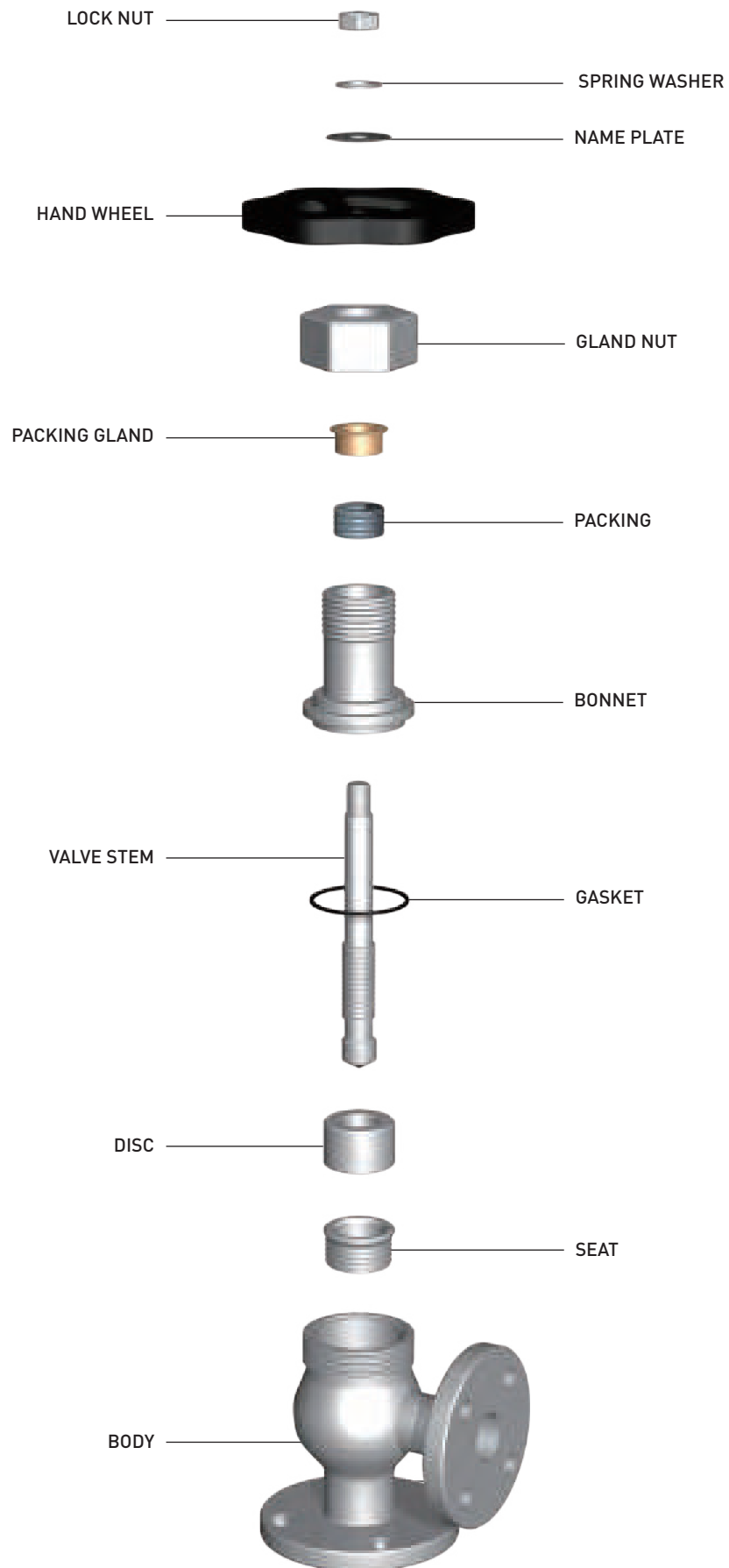
UNIT(mm)

SIZE	Ød	L	H	FLANGE
15A	15	110	135	FLANGE JIS B 2220 10K, 16K FF (KS B 1503 10K, 16K FF)
20A	20	120	145	
25A	25	130	167	
32A	32	160	180	
40A	40	180	195	

OTHER VALVES + ANGLE VALVE

- PART LIST FOR ANGLE VALVE
- DIMENSION LIST FOR ANGLE VALVE

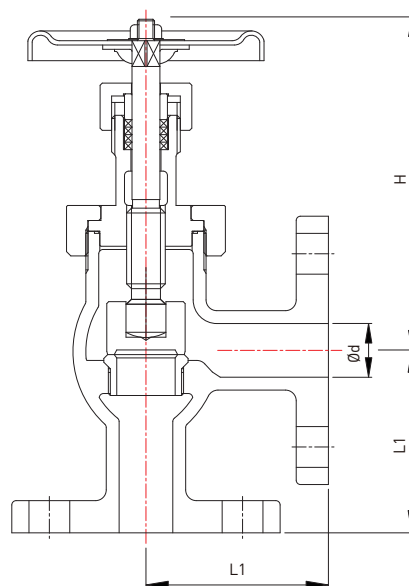




DIMENSION LIST

ANGLE VALVE

(MODEL : SPAV-1F)



SPECIFICATION

Working Pressure (kgf/cm ²)	MAX. 16	
Working Temperature	MAX. 220°C	
Connection	JIS Flanged	
Materials	Body	Ductile Cast Iron
	Trim	Stainless Steel

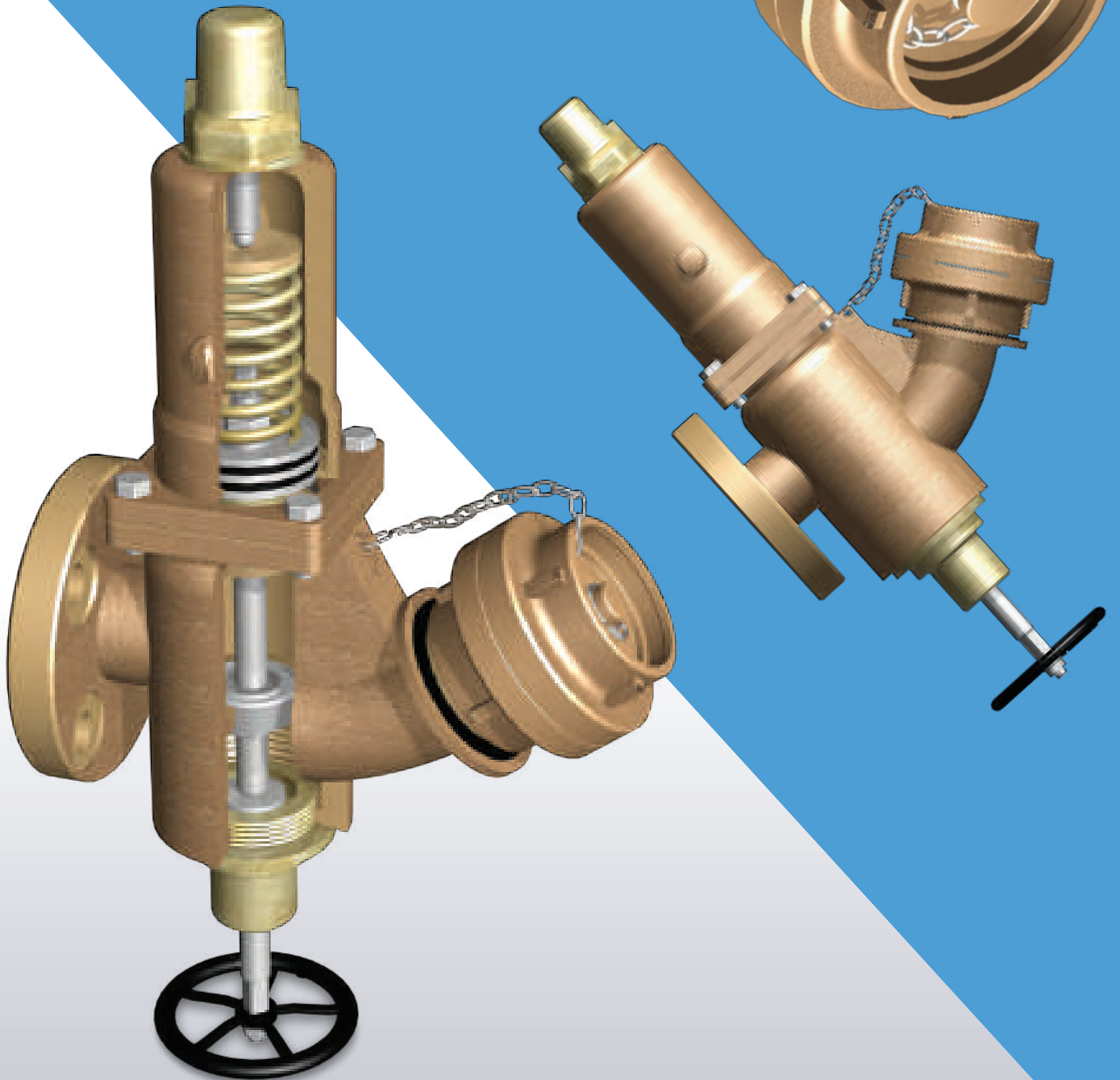
DIMENSION

UNIT(mm)

SIZE	Ød	L1	H	FLANGE
15A	15	70	135	FLANGE JIS B 2220 16K FF (KS B 1503 10K, 16K FF)
20A	20	75	145	
25A	25	85	167	
32A	32	95	180	
40A	40	100	195	

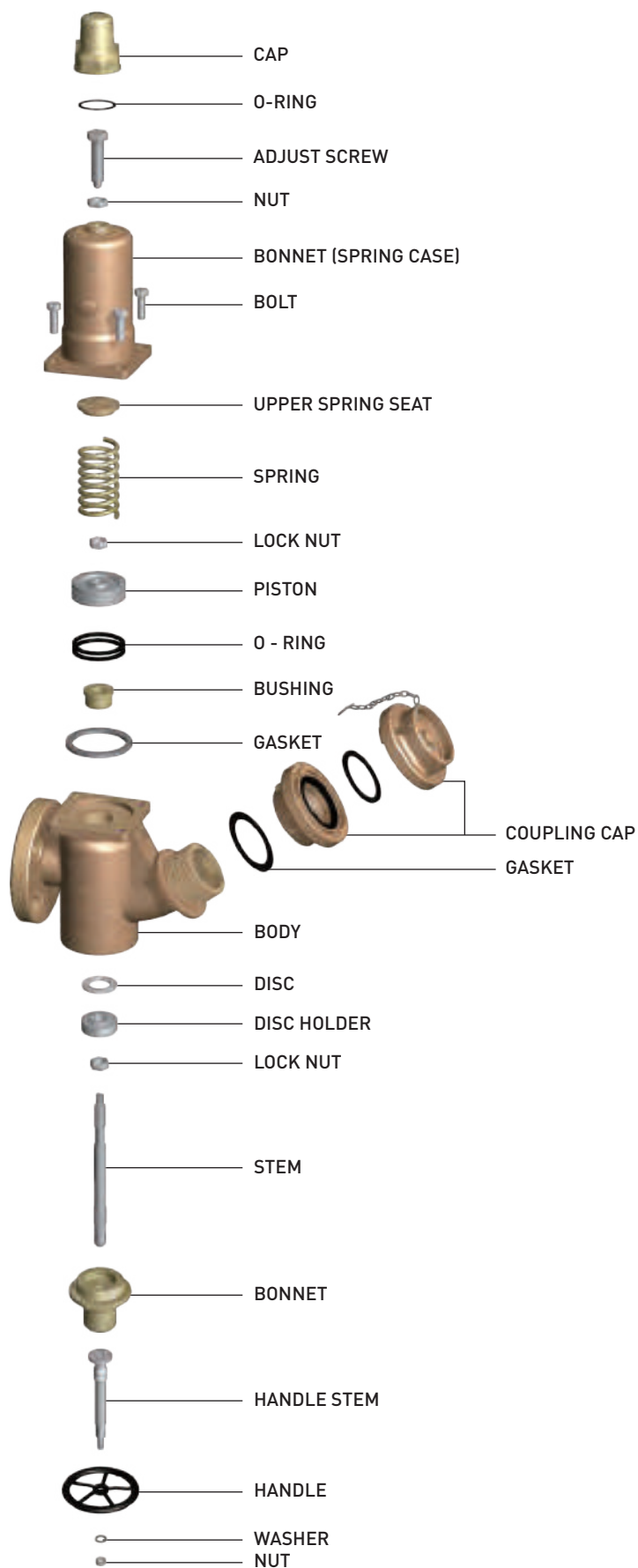
OTHER VALVES HYDRANT REDUCING VALVE

- PART LIST FOR HYDRANT REDUCING VALVE
- DIMENSION LIST FOR HYDRANT REDUCING VALVE



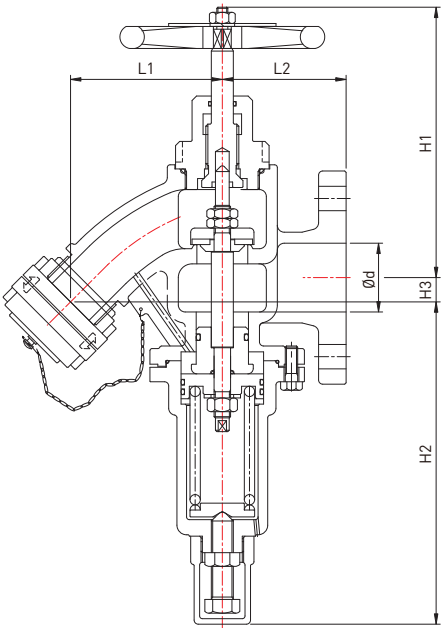
HYDRANT REDUCING VALVE

PART LIST FOR HYDRANT REDUCING VALVE



DIMENSION LIST

HYDRANT
REDUCING VALVE
(MODEL : SPHR-1F)



SPECIFICATION

Inlet Pressure (kgf/cm ²)	MAX. 20	
Outlet Pressure (kgf/cm ²)	5 ~ 7	
Working Temperature	MAX. 80°C	
Working Fluid	Sea Water	
Connection	ANSI 150# Flanged	
Valve Type	Globe Type, Angle Type	
Materials	Body	Cast Bronze / Cast Aluminum Bronze
	Trim	Stainless Steel
	Disc	Teflon
	Coupling	Cast Bronze

DIMENSION

UNIT(mm)

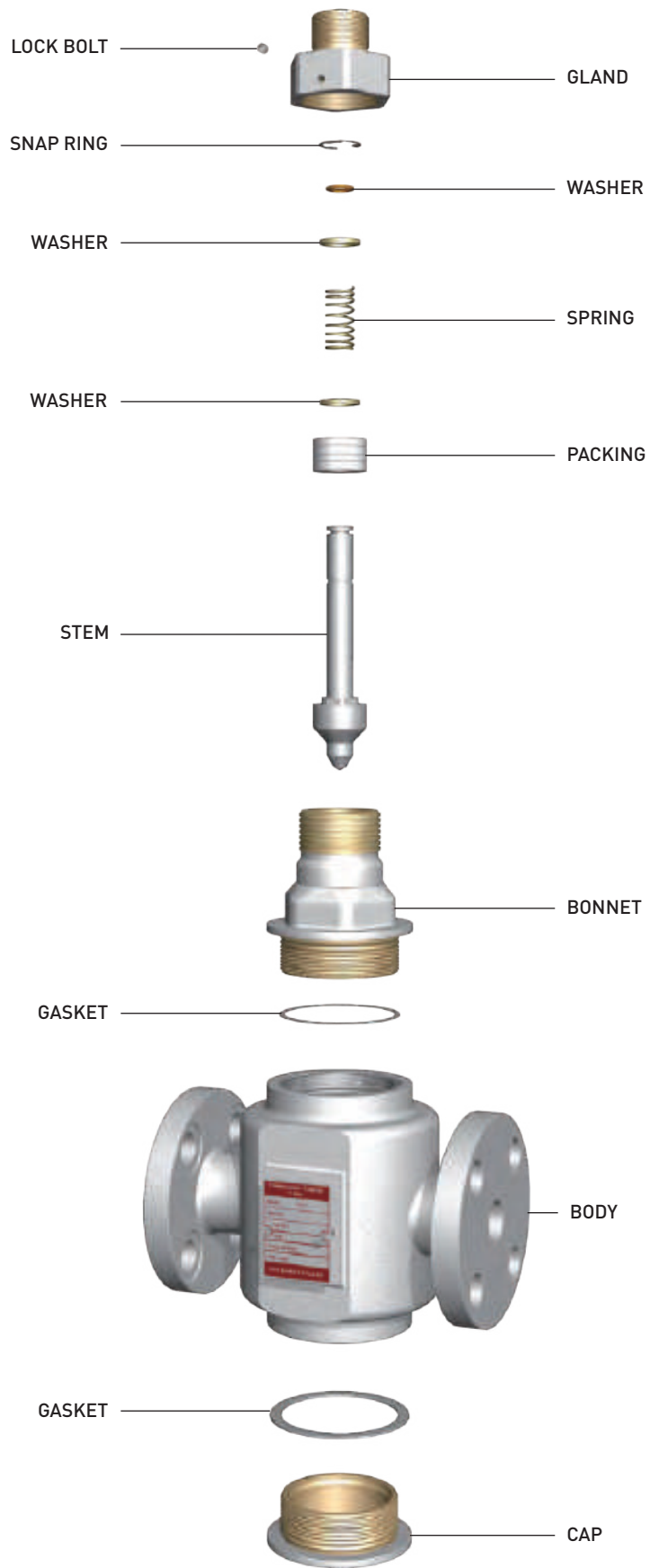
SIZE	Ød	L1	L2	H1	H2	H3	FLANGE
50A	50	110	90	200	243	17	ANSI B 16.5 300LB FF
65A	65	140	117	240	267	23	

OTHER VALVES + TEMPERATURE CONTROL VALVE & HEAT SENSOR

- PART LIST FOR TEMPERATURE CONTROL VALVE
- PART LIST FOR HEAT SENSOR
- DIMENSION LIST FOR TEMPERATURE CONTROL VALVE & HEAT SENSOR



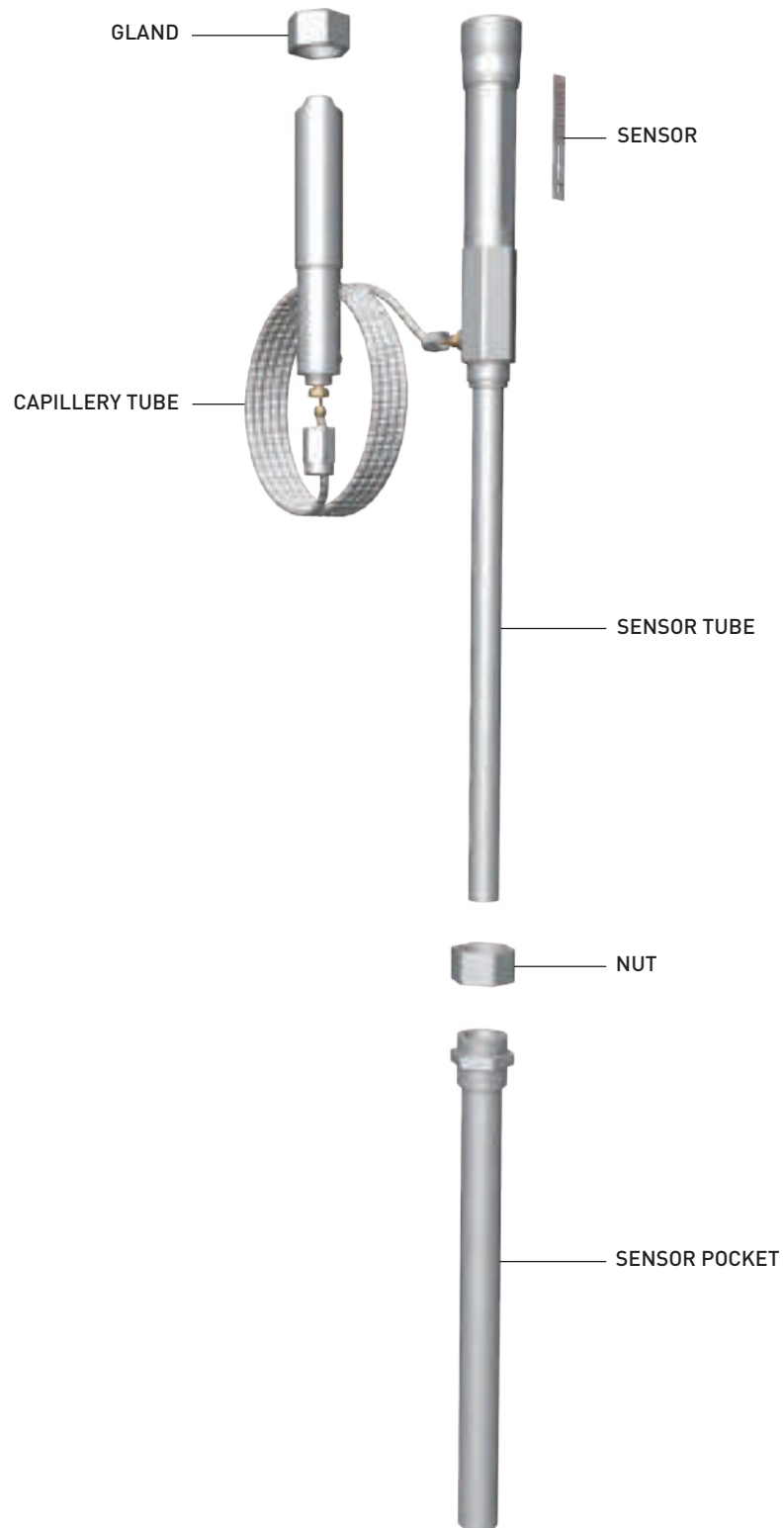
PART LIST FOR TEMPERATURE CONTROL VALVE



TEMPERATURE
CONTROL VALVE

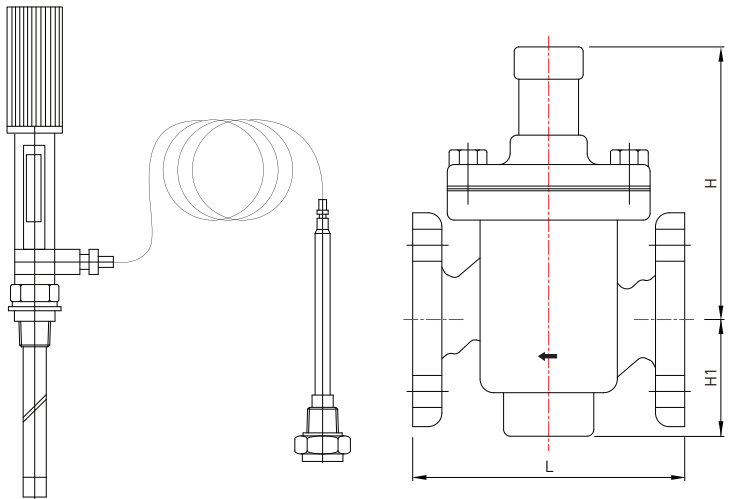
HEAT SENSOR

PART LIST FOR HEAT SENSOR



DIMENSION LIST

TEMPERATURE
CONTROL VALVES
+ HEAT SENSOR
(MODEL : SPHR-1F)



SPECIFICATION

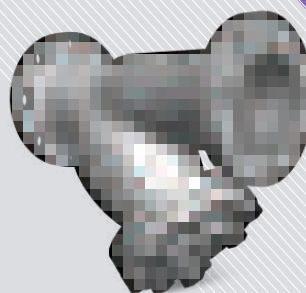
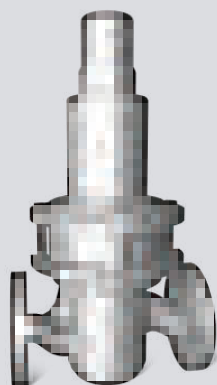
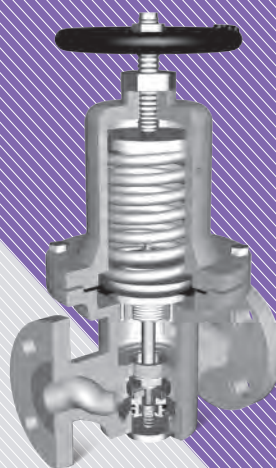
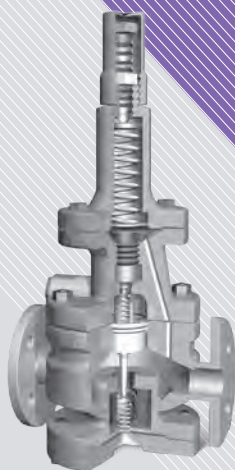
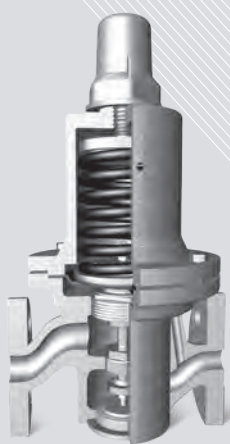
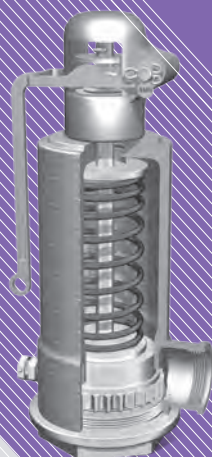
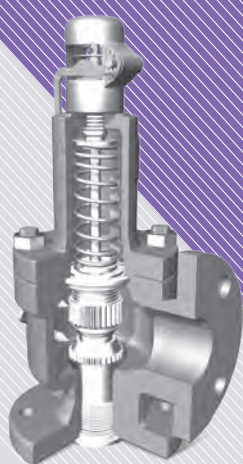
Working Pressure (kgf/cm ²)	10 ↓	
Temperature Range	50 ~ 110℃	
Valve Type	Direct Acting Type	
Working Temperature	220℃	
Working Fluid	Steam	
Connection	JIS 10K(16K) Flanged	
Capillary Tube Length	3M, 5M (ORDER PRODUCTION)	
Material	Body	Ductile Cast Iron / Cast Bronze
	Trim	Stainless Steel
	Sensor	Cooper Tube

DIMENSION

UNIT(mm)			
SIZE	L	H	H1
15A	135	65	140
20A	140	65	140
25A	140	70	140

TECHNICAL DATA

- DISCHARGE CAPACITIES
- TABLE FOR SIZING



DISCHARGE CAPACITIES

FULL BORE TYPE SAFETY VALVE

[MODEL : SPSF-1S]



S : Saturated steam (kg/h with 3% accumulation)

A : Air (kg/hat 20°C with 10% accumulation)

W : Water (m³/h at G = 1 with 15% accumulation)

SIZE	Effective Area DI (mm²)	Fluid	Set Pressure (Kgf/cm²)															
			1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	12.0	14.0	16.0	18.0	19.0	20.0
15A	103.87	S	91	127	169	212	255	298	341	383	426	469	555	640	726	881	854	897
		A	143	217	291	365	439	513	587	661	735	809	957	1105	1253	1401	1475	1549
		W	3.1	4.4	5.4	6.3	7.0	7.7	8.3	8.9	9.4	9.9	10.9	11.8	12.6	13.4	13.7	14.1
25A	254.47	S	223	311	416	521	626	730	835	940	1045	1150	1360	1569	1779	1989	2094	2199
		A	351	532	714	895	1076	1258	1439	1620	1802	1983	2346	2709	3071	3434	3615	3797
		W	7.7	10.9	13.4	15.4	17.3	18.9	20.4	21.8	23.2	24.4	26.8	28.9	30.9	32.8	33.7	34.6
40A	660.52	S	581	808	1080	1353	1625	1897	2169	2441	2713	2986	3530	4074	4619	5136	5435	5707
		A	912	1383	1854	2324	2795	3266	3736	4207	4678	5148	6090	7031	7973	8914	9385	9855
		W	20.2	28.4	34.8	40.1	44.9	49.2	53.1	56.8	60.2	63.5	69.6	75.1	80.3	85.2	87.5	89.8
50A	1017.88	S	895	1246	1665	2085	2504	2923	3343	3762	4182	4601	5440	6279	7118	7957	8376	8796
		A	1406	2131	2857	3582	4307	5033	5758	6483	7209	7934	9385	10836	12286	13737	14462	15188
		W	30.9	43.7	53.6	61.9	69.2	75.8	81.9	87.5	92.8	97.9	107.2	115.8	123.8	131.3	134.9	138.4
65A	1590.43	S	1399	1947	2602	3257	3913	4568	5223	5879	6534	7190	8500	9811	11722	12433	13088	13743
		A	2197	3331	4464	5597	6731	7864	8997	10131	11264	12397	14664	16931	19197	21464	22598	23731
		W	48.3	68.4	83.8	96.7	108.1	111.5	128.0	136.8	145.1	152.9	167.6	181.0	193.5	205.2	210.8	216.3
80A	2551.76	S	2245	3123	4175	5226	6278	7330	8381	9433	10484	11536	13639	15742	17845	19948	20999	22051
		A	3526	5344	7162	8981	10799	12618	14436	16254	18073	19891	23528	27165	30802	34438	36257	38075
		W	70.6	109.7	134.4	155.2	173.5	190.1	205.3	219.5	232.8	245.4	268.9	290.4	310.5	329.3	338.3	347.1
100A	4185.38	S	3683	5123	6848	8573	10297	12022	13747	15472	17196	18921	22370	25820	29269	32719	34443	36168
		A	5783	8765	11748	14731	17713	20696	23678	26661	29643	32626	38591	44556	50521	56486	59469	62451
		W	127.3	180.0	220.5	254.6	284.6	311.8	336.8	360.1	381.9	402.6	441.0	476.3	509.2	540.1	554.9	569.3
125A	7888.21	S	6238	8677	11598	14519	17440	20361	23282	26202	29123	32044	37886	43728	49570	55411	58332	61253
		A	9794	14845	19896	24947	29999	35050	40101	45152	50203	55254	65356	75459	85561	95663	100714	105765
		W	215.6	304.9	373.4	431.2	481.1	528.1	570.4	609.8	646.8	681.8	746.9	806.7	862.4	914.8	939.8	964.3
150A	9503.31	S	8364	11634	15550	19466	23382	27298	31214	35130	39046	42963	50795	58627	66459	74291	78207	82124
		A	13131	19903	26676	33448	40220	46992	53764	60536	67308	74081	87625	101169	111713	128258	135030	141802
		W	289.0	408.8	500.7	578.1	646.4	708.1	746.8	817.6	867.2	914.1	1001.4	1081.6	1156.3	1222.5	1260.1	1292.8

DISCHARGE CAPACITIES

LOW LIFT TYPE SAFETY VALVE [MODEL : SP SL-1S]



S : Saturated steam (kg/h with 3% accumulation)

A : Air (kg/h at 20°C with 10% accumulation)

W : Water (m³/h at G = 1 with 15% accumulation)

SIZE	Effective Area DI (mm²)	Fluid	Set Pressure (Kgf/cm²)																
			0.3	0.4	0.5	0.6	0.7	0.8	0.9	1.0	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0
15A ~ 20A	62.83	S	41.90	44.69	47.48	50.27	53.07	55.86	58.65	61.45	85.47	114.24	143.00	171.77	200.54	229.31	258.08	286.85	315.61
		A	61.65	66.62	71.60	76.57	81.55	86.52	91.50	96.47	146.22	195.97	245.72	295.47	345.22	394.97	444.72	494.47	544.23
		W	0.79	0.91	1.01	1.11	1.20	1.28	1.36	1.43	2.03	2.48	2.87	3.21	3.51	3.79	4.05	4.30	4.53
25A	133.52	S	89.03	94.96	100.90	106.83	112.77	118.70	124.64	130.58	181.62	242.75	303.88	365.02	426.15	487.28	548.42	609.55	670.68
		A	131.00	141.57	152.14	162.71	173.28	183.86	194.43	205.00	310.72	416.44	522.16	627.88	733.60	839.32	945.04	1050.76	1156.48
		W	1.67	1.93	2.15	2.36	2.55	2.72	2.89	3.05	4.31	5.28	6.09	6.81	7.46	8.06	8.62	9.14	9.63
32A	221.17	S	147.47	157.30	167.14	176.97	186.80	196.63	206.46	216.29	300.85	402.11	503.37	604.64	705.90	807.17	908.43	1009.70	1110.96
		A	216.99	234.50	252.02	269.53	287.04	304.55	322.06	339.58	514.70	689.82	864.94	1040.06	1215.19	1390.31	1565.43	1740.55	1915.67
		W	2.76	3.19	3.57	3.91	4.22	4.51	4.79	5.05	7.14	8.74	10.09	11.28	12.36	13.35	14.27	15.14	15.96
40A	289.03	S	192.72	205.57	218.42	231.26	244.11	256.96	269.81	282.66	393.15	525.48	657.82	790.15	922.49	1054.82	1187.16	1319.49	1451.83
		A	283.57	306.45	329.34	352.22	375.11	398.00	420.88	443.77	672.62	901.47	1130.32	1359.18	1588.03	1816.88	2045.73	2274.58	2503.44
		W	3.61	4.17	4.66	5.11	5.52	5.90	6.26	6.59	9.33	11.42	13.19	14.74	16.15	17.45	18.65	19.76	20.85
50A	392.70	S	261.85	279.31	296.76	314.22	331.67	349.13	366.59	384.04	534.17	713.97	893.78	1073.58	1253.38	1433.18	1612.99	1792.79	1972.59
		A	385.28	416.38	447.47	478.57	509.66	540.75	571.85	602.94	813.88	1024.82	1235.76	1446.71	1657.65	1868.59	2079.53	2290.47	2501.41
		W	4.91	5.67	6.34	6.94	7.50	8.01	8.50	8.96	12.67	15.52	17.92	20.03	21.95	23.70	25.34	26.88	28.33

DISCHARGE CAPACITIES

HIGH LIFT TYPE SAFETY VALVE

[MODEL : SPSH-3S]



S : Saturated steam (kg/h with 3% accumulation)

A : Air (kg/h at 20°C with 10% accumulation)

W : Water (m³/h at G = 1 with 15% accumulation)

SIZE	Effective Area DI (mm²)	Fluid	Set Pressure (Kgf/cm²)															
			11.0	12.0	13.0	14.0	15.0	16.0	17.0	18.0	19.0	20.0	21.0	22.0	24.0	26.0	28.0	30.0
15A ~ 20A	35.19	S	164	178	192	206	219	233	247	261	274	288	302	316	343	371	398	426
		A	283	307	331	354	378	402	426	449	473	497	521	545	592	640	687	735
		W	3.55	3.71	3.86	4.00	4.15	4.28	4.41	4.54	4.67	4.79	4.90	5.02	5.24	5.46	5.66	5.86
25A	71.63	S	335	363	391	419	447	475	503	531	559	587	615	643	699	755	811	867
		A	576	625	673	722	770	819	867	916	964	1012	1061	1109	1206	1303	1401	1497
		W	7.23	7.55	7.86	8.15	8.44	8.72	8.98	9.24	9.50	9.74	9.99	10.22	10.67	11.11	11.53	11.93
32A ~ 40A	130.69	S	613	665	716	767	818	869	920	971	1022	1073	1125	1176	1278	1380	1482	1585
		A	1055	1144	1232	1320	1409	1497	1586	1674	1762	1851	1939	2028	2204	2381	2558	2735
		W	12.02	12.56	13.07	13.56	14.04	14.50	14.95	15.38	15.80	16.21	16.61	17.00	17.76	18.48	19.18	19.86
50A	217.71	S	1019	1104	1189	1274	1359	1444	1530	1615	1700	1785	1870	1955	2126	2296	2466	2637
		A	1753	1900	2048	2195	2342	2489	2637	2784	2931	3078	3226	3373	3667	3962	4256	4551
		W	21.97	22.94	23.88	24.78	25.65	26.49	27.31	28.10	28.87	29.62	30.35	31.06	32.44	33.77	35.04	36.27

TABLE FOR SIZING

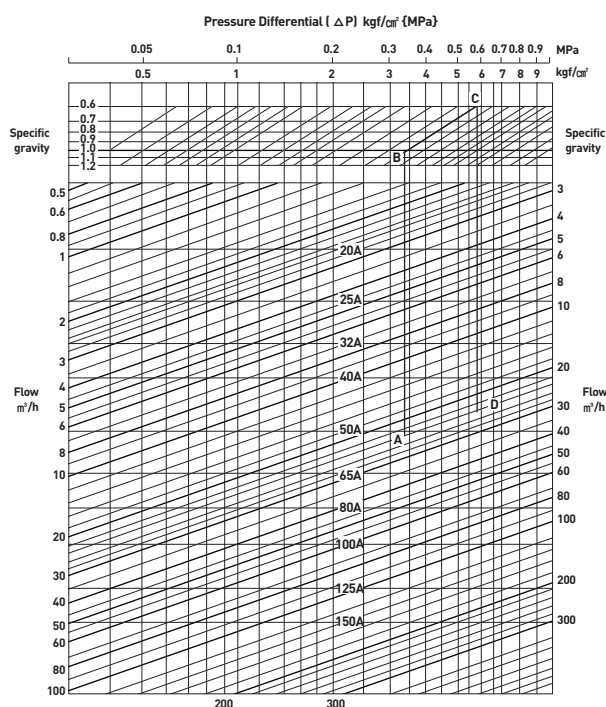
PRESSURE REDUCING VALVE

[MODEL : SPRD-1F]

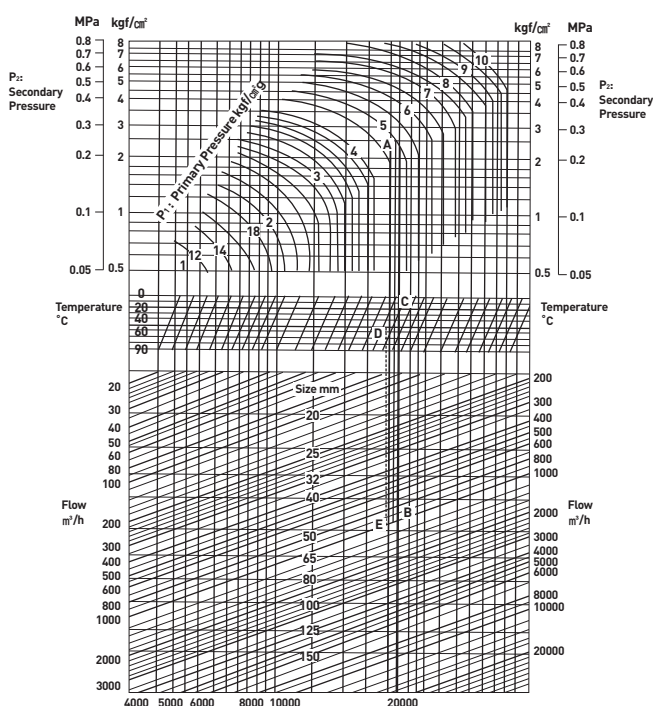
Oblique line : Flow
Horizontal line : Size



SPRD-1F
(FOR WATER)



SPRD-1F
(FOR AIR)



HOW TO USE THE CHART

Where,

Primary pressure : 5.5 kgf/cm² (0.55 MPa)
Secondary pressure : 2 kgf/cm² (0.2 MPa)
Pressure differential : 3.5 kgf/cm² (0.35 MPa)
Specific gravity : 1 (water)
Flow : 24 m³/h

Obtain a cross point "A" by tracing down vertically from the pressure differential of 3.5 kgf/cm² (0.35 MPa) L on the top up to the line of Flow 24 m³/h. As the point "A" is between size 50 and 65 mm. Select safer size 65 mm.

Where, same conditions except Specific gravity : 0.6

Obtain a cross point "B" by tracing down vertically from the pressure differential of 3.5 kgf/cm² (0.35 MPa) up to the line of specific gravity 1.0 and move in parallel with the slant line up to the cross point "C" on the line of the specific gravity 0.6. Trace down vertically to the point "D" on the cross line of Flow 24 m³/h. As the point "D" is between size 40 and 50 mm. Select safer size 50 mm.

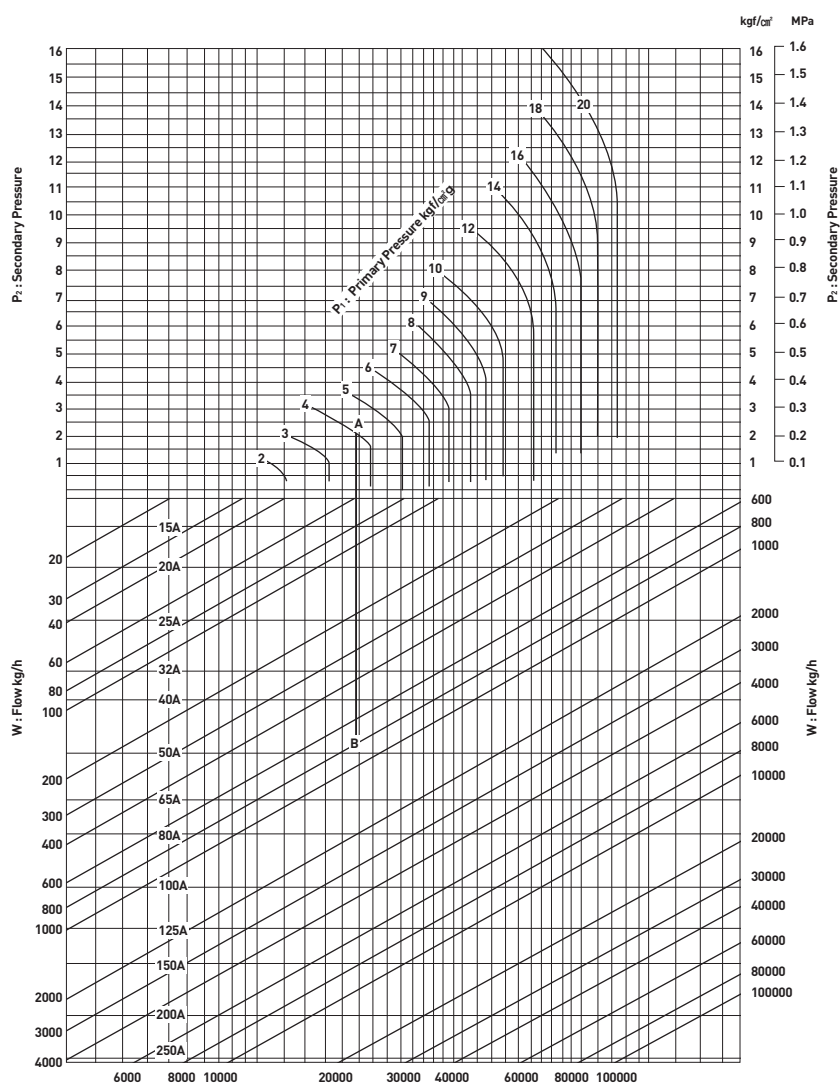
TABLE FOR SIZING

PRESSURE REDUCING VALVE

[MODEL : SPRS-1F]



SPRS-1F
(FOR STEAM)



HOW TO USE THE CHART

Where,

Primary pressure : 4 kgf/cm²g (0.4MPa)
Secondary pressure : 2 kgf/cm²g (0.2MPa)
Flow (Saturated steam) : 800 m³/h

Where, same conditions except Specific gravity : 0.6

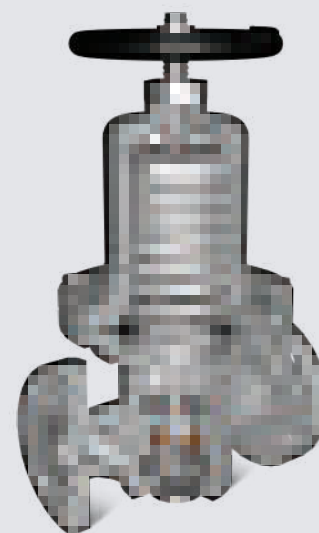
Obtain a cross point "A" on the vertical line of primary pressure 4 kgf/cm²g (0.4MPa) with horizontal line of secondary pressure 2 kgf/cm²g (0.2MPa)

Obtain a cross point "B" on the vertical line down from the point "A" with the oblique line of flow 800kg/h. As the point "B" is between size 40 and 50mm. Select safer size 50mm.

TABLE FOR SIZING

PRESSURE REDUCING VALVE [MODEL : SPRD-3F]

SPRD-3F
(FOR AIR)



HOW TO USE THE CHART

Where,

Primary pressure : 12 kgf/cm^2 (1.2MPa)

Secondary pressure : 7.5 kgf/cm^2 (0.75MPa)

Specific gravity : 1 (air)

Flow : $600 \text{ Nm}^3/\text{h}$

Obtain a cross point "A" of primary pressure 12 kgf/cm^2 (1.2MPa) and secondary pressure 7.5 kgf/cm^2 (0.75MPa). Obtain a cross point "B" of flow $600 \text{ Nm}^3/\text{h}$ by vertically tracing down from "A" node. Choose nominal diameter 25A because "B" is located between nominal diameter 20A and 25A.

Under the same condition, in case of temperature 80°C and specific gravity 1.4, what is the nominal diameter ?

Obtain a cross point "C" with the temperature of 24°C by vertically tracing down from "A". Obtain "D" by parallel transference toward the temperature 80°C line from "C".

From "D", vertically tracing down, obtain a cross point "E" with specific gravity 1. And from "E", obtain "F" by parallel transference toward specific gravity 1.4's line, and by vertically tracing down, obtain a cross point "G" of flow $600 \text{ Nm}^3/\text{h}$. Choose nominal diameter 32A because a cross point "G" is located between 25A and 32A.

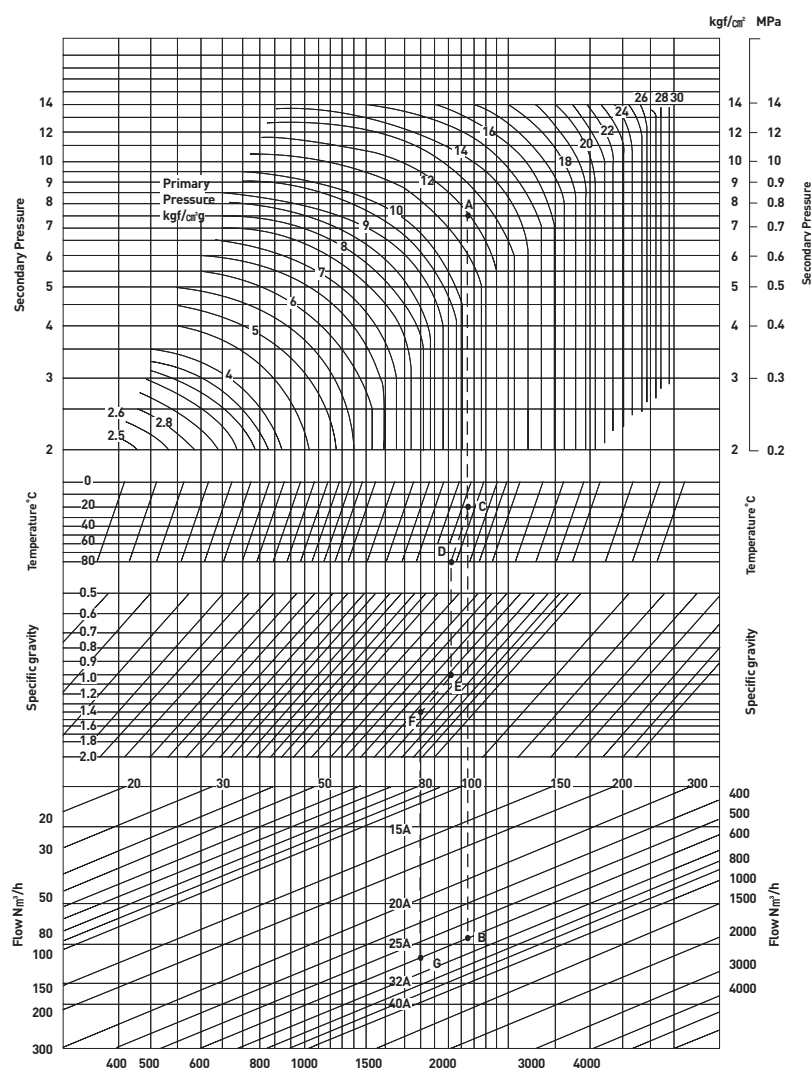


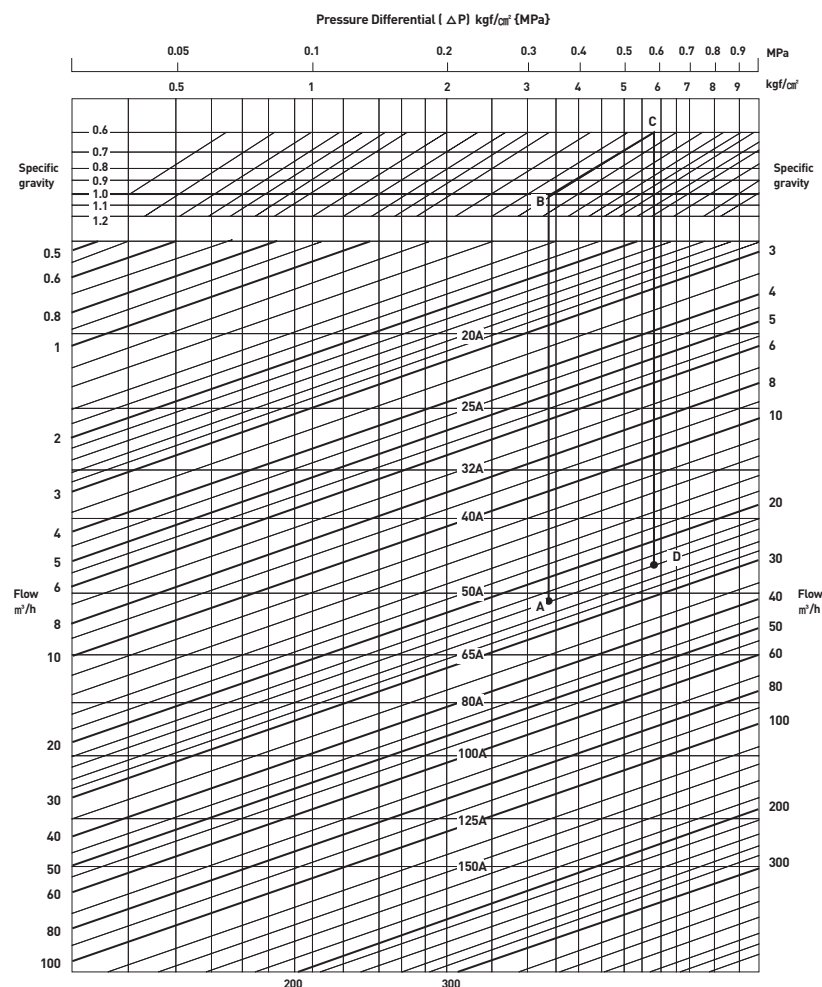
TABLE FOR SIZING

PRIMARY REGULATING VALVE

[MODEL : SPPD-1F]

PISTON TYPE PRESSURE REGULATING VALVE

[MODEL : SPPP-1F]

SPPD-1F, SPPP-1F
(FOR LIQUID)

HOW TO USE THE CHART

Where,

Primary pressure : 5.5kgf/cm²g (0.55MPa)Secondary pressure : 2kgf/cm²g (0.2MPa)Pressure differential : 3.5kgf/cm²g (0.35MPa)

Specific gravity : 1 (water)

Flow : 24 m³/h

Obtain a cross point "A" by tracing down vertically from the pressure differential of 3.5kgf/cm²g (0.35MPa) L on the top up to the line of Flow 24 m³/h. As the point "A" is between size 50 and 65mm.

Select safer size 65mm.

Where, same conditions except Specific gravity : 0.6

Obtain a cross point "B" by tracing down vertically from the pressure differential of 3.5kgf/cm²g (0.35MPa) up to the line of specific gravity 1.0 and move in parallel with the slant line up to the cross point "C" on the line of the specific gravity 0.6 Trace down vertically to the point "D" on the cross line of Flow 24 m³/h. As the point "D" is between size 40 and 50mm. Select safer size 50mm.

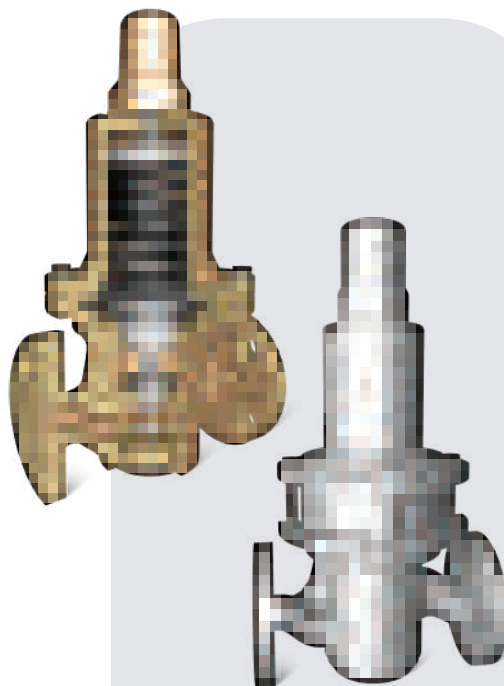


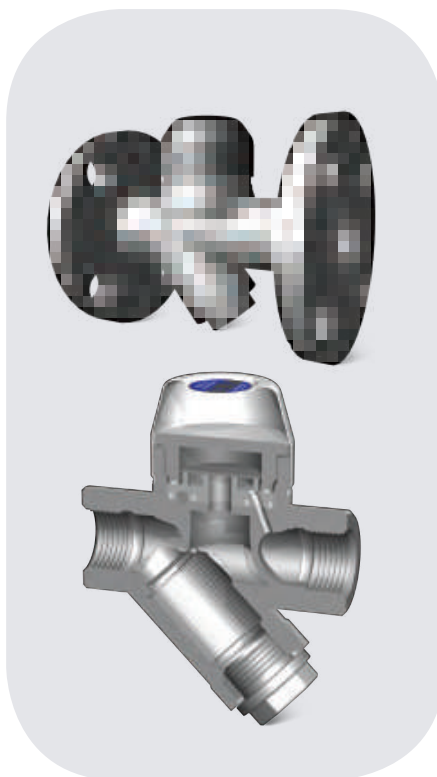
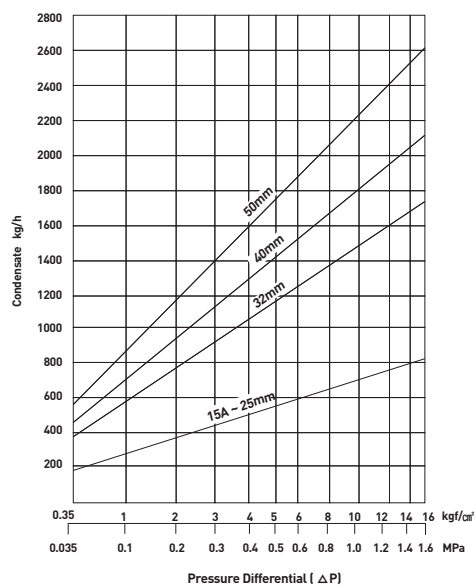
TABLE FOR SIZING

DISC TYPE STEAM TRAP

[MODEL : SPTD-1F / 1S]



SPTD-1F / 1S



BY-PASS TYPE STEAM TRAP

[MODEL : SPTP-1S]



SPTP-1S

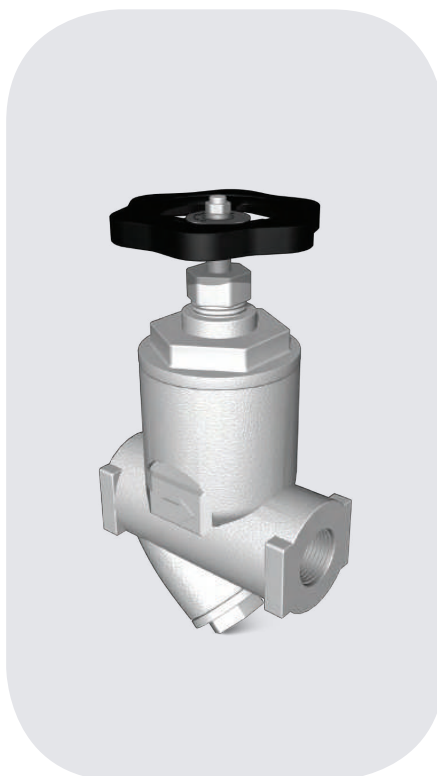
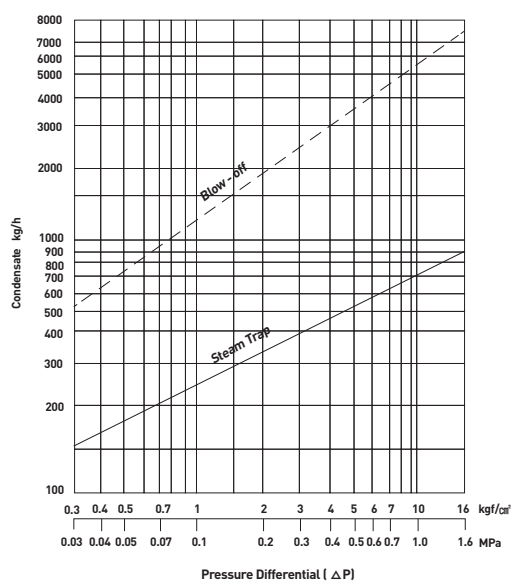


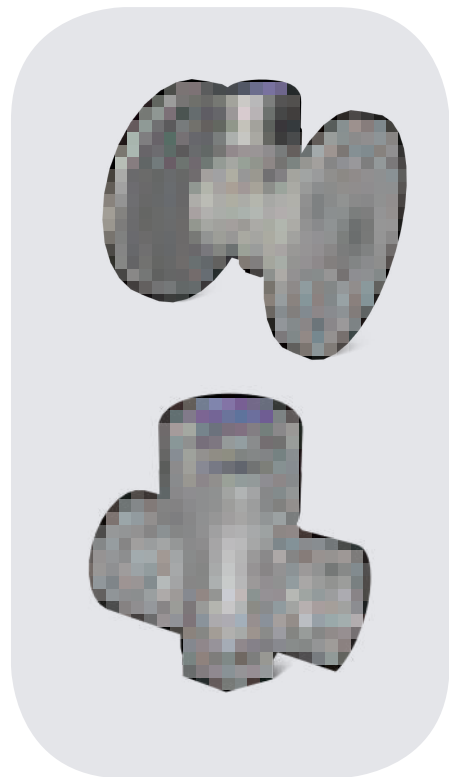
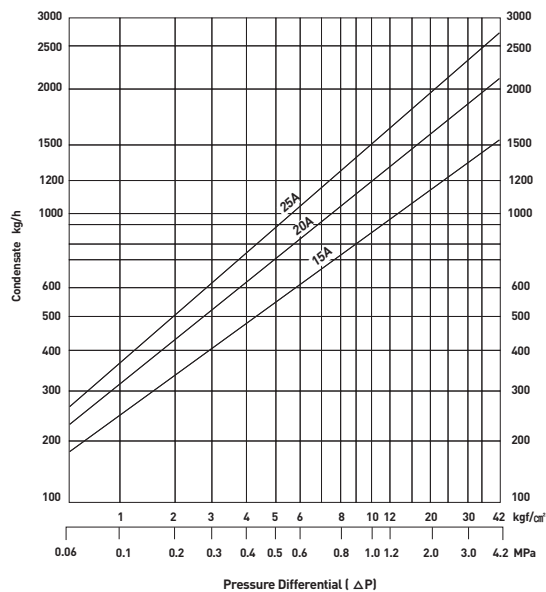
TABLE FOR SIZING

DISC TYPE STEAM TRAP

[MODEL : SPTD-4F / 4S]



SPTD-4F / 4S



BUCKET TYPE STEAM TRAP

[MODEL : SPTB-1F / 1S]



SPTB-1F / 1S

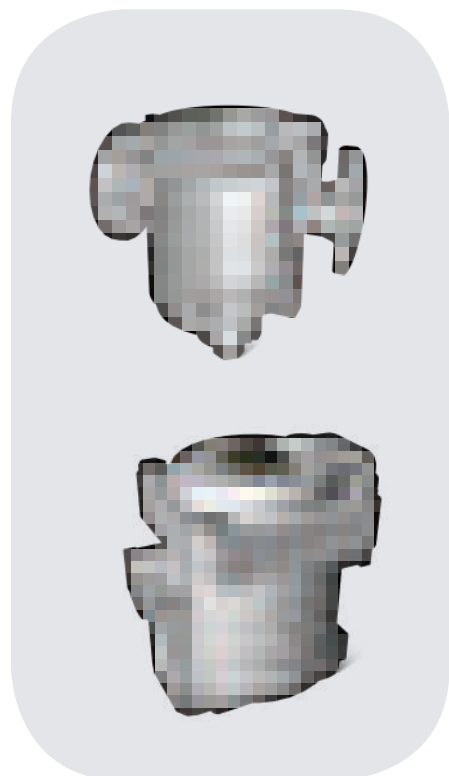
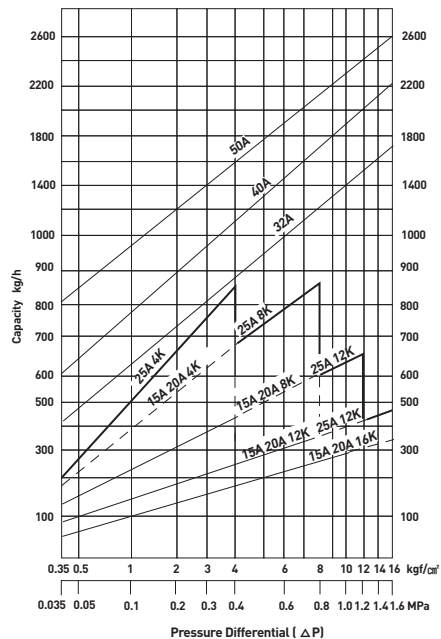


TABLE FOR SIZING

FLOAT TYPE STEAM TRAP

[MODEL : SPTF-1F / 1S]



SPTF-1F / 1S

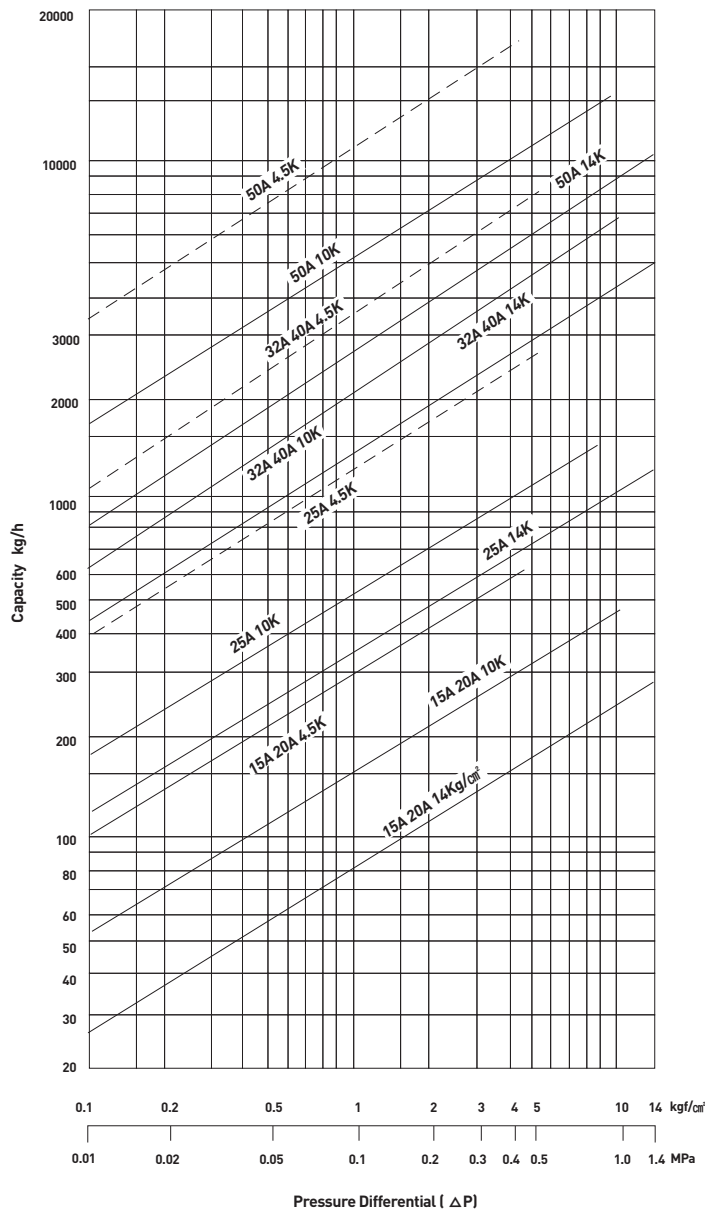
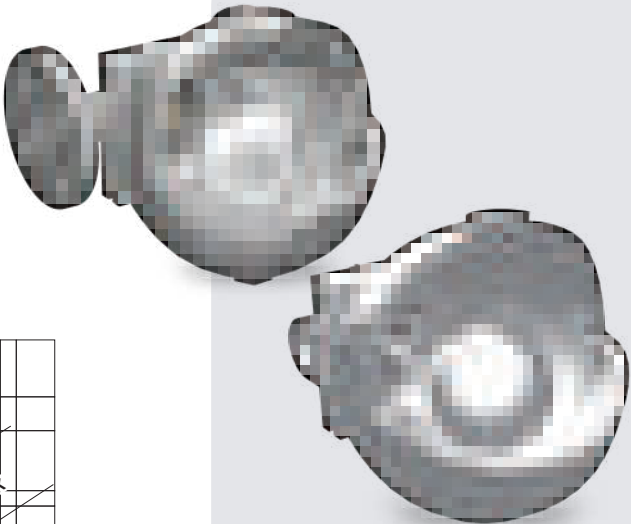
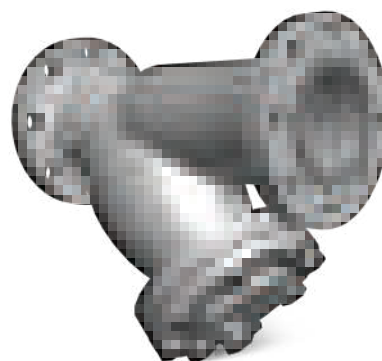


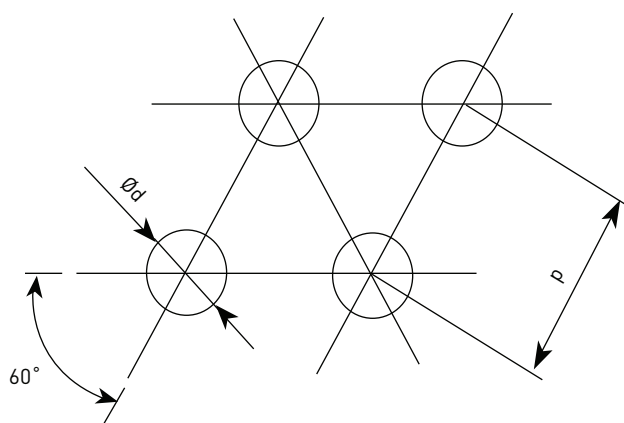
TABLE FOR SIZING

Y-TYPE STRAINER

[MODEL : SPFY-1F]



SCREEN



TYPE	PERFORATION OF FILTER							
PART	SCREEN				SCREEN WITH MESH INSIDE			
SIZE	t	ϕd	P	OPEN AREA RATIO (%)	t	ϕd	P	OPEN AREA RATIO (%)
15A ~ 25A	0.25	0.8	1.5	25.88	0.5	3.0	4.0	51.19
32A ~ 50A	0.3	1.0	1.7	31.48				
65A ~ 100A	0.5	1.2	2.0	32.76	0.7	5.0	6.5	53.85
125A ~ 150A	0.6	1.5	2.2	42.30	1.0	8.0	10.0	58.24
200A	0.8	1.8	2.5	47.17				

- CALCULATION OF OPEN AREA RATIO : $F = 91.0 \times d^2 / P^2$ [F : open area ratio (%), d : hole diameter (mm), P : hole pitch (mm)]

MESH	PITCH	S.W.G	WIRE DIA (mm)	OPEN AREA RATIO (%)
20	1.2700	30	0.3150	56.5
40	0.6350	35	0.2134	44.1
60	0.4233	38	0.1524	41.2
80	0.3175	41	0.1118	42.0
100	0.2540	42	0.0813	37.5
120	0.2116	44	0.0813	37.5
160	0.1588	46	0.0613	37.5
200	0.1270	48	0.0406	36.2