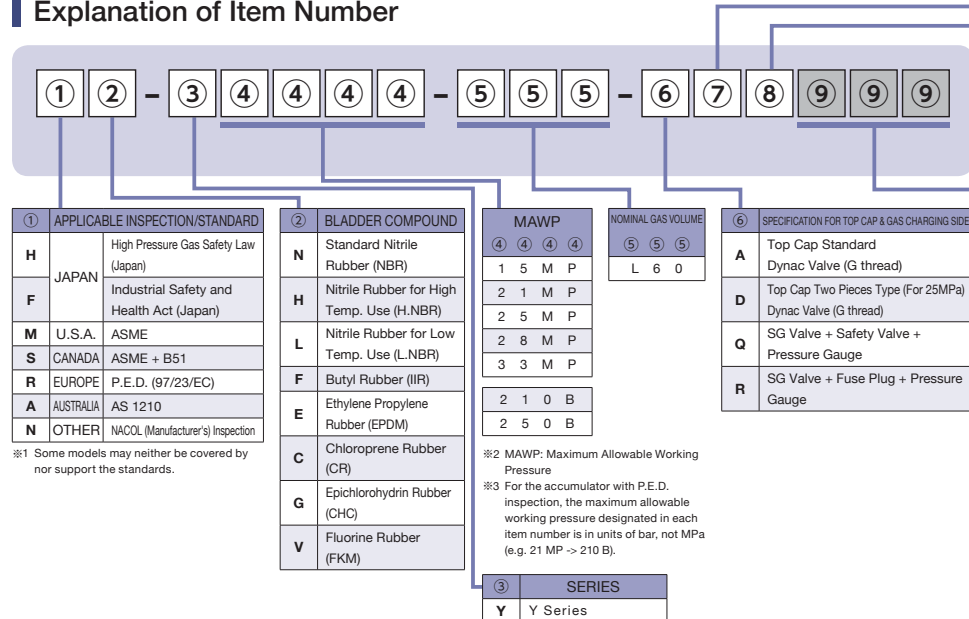


Accumulator

Explanation of Item Number



※1 Some models may neither be covered by nor support the standards.

※2 MAWP: Maximum Allowable Working Pressure
 ※3 For the accumulator with P.E.D. inspection, the maximum allowable working pressure designated in each item number is in units of bar, not MPa (e.g. 21 MP -> 210 B).

⑦	SPECIFICATION FOR OIL PORT SIDE
A	Carbon Steel
D	Stainless Steel ※4

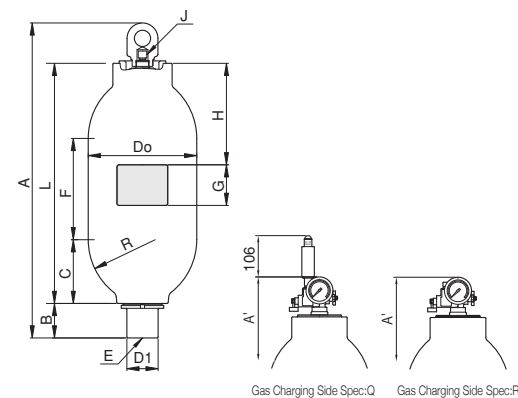
※4 When selecting D, please contact us.

⑧	SPECIFICATION OF SHELL	SURFACE TREATMENT	SERVICE FLUID
C	Standard Material (Carbon Steel)	Inside & Outside Surface : Zinc Phosphate Treatment (Standard)	Petroleum Based Hydraulic Oil & Other Fluid
D		Standard Paint Coating	Water + Glycol Fluid
A		Standard Paint Coating	Petroleum Based Hydraulic Oil & Other Fluid ※5
B		Standard Paint Coating	Petroleum Based Hydraulic Oil & Other Fluid ※5
N		Inside Surface : Zinc Phosphate Treatment	Petroleum Based Hydraulic Oil & Other Fluid
W		Outside Surface : Standard Paint Coating	Water + Glycol Fluid
H		Inside & Outside Surface : Standard Plating	Petroleum Based Hydraulic Oil -Water + Glycol Fluid & Other Fluid

※5 Inner surface coating is unsuitable when using fire resistant fluids that may cause the paint to peel off, such as phosphate ester based fluids and water glycol fluids.

⑨⑨⑨	SPECIAL SPECIFICATION
***	For special specifications, the item number designation includes a three-digit number.

Dimensional Drawing



Dimensional Table

Maximum Allowable Working Pressure MPa	Item Number	Nominal Gas Volume L	Mass kg	A ⁺¹⁷ ₀ mm	A ⁺¹⁷ ₀ mm	L mm	B mm	C mm	F mm	H mm	G mm	φDo±1% mm	φD1 mm	R mm	E	J	Allowable Oil Flow Rate [When Vertically Installed 16-320cSt]	Possible Oil Flow Rate
15	①② - Y 1 5 M P - L 6 0 - ⑥⑦⑧	60	170	1,286	1,292	1,088	99	210	638	400	90	355.6	92.5	230	M75x2	G1/4	900L/min	1,800L/min ※7
21	①② - Y 2 1 M P - L 6 0 - ⑥⑦⑧		220													G3/8		
25	①② - Y 2 5 M P - L 6 0 - ⑥⑦⑧		250															
28	①② - Y 2 8 M P - L 6 0 - ⑥⑦⑧		220															
33	①② - Y 3 3 M P - L 6 0 - ⑥⑦⑧		250															

※6 Dimensions without tolerance indication are for reference. Please confirm the dimensions with the actual product.

※7 Maximum oil flow rate available under certain conditions.

Typical Exploded View

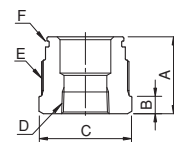
①	Eye Nut
②	Valve Cap
③	O-ring
④	Top Cap With Dynac Valve
⑤	Stop Ring
⑥	Cap Nut
⑦	Top Cap With Dynac Valve (Two Pieces Type)
⑧	Dynac Valve Packing With Valve Stem
⑨	Spring
⑩	Spring Nut
⑪	O-ring
⑫	Bladder Back Up Ring
⑬	Bladder Cap
⑭	Bladder
⑮	Oil Port Valve Assembly
⑯	O-ring
⑰	Back Up Ring (Only for 25MPa or more)
⑱	Accumulator Body
⑲	Nameplate
⑳	Ring Nut

※1 The typical exploded view for this series.
 ※2 If you purchase ⑬ bladder as the spare parts, ③ ⑪ o-rings and ⑬ bladder cap will be attached with the bladder.

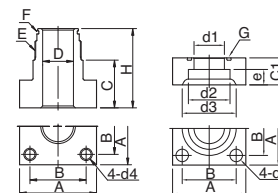
Piping Connection

Dimensional Drawing

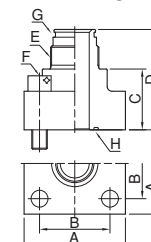
● Bushing



● Flange (with Counter Flange)



● Valve Flange



※1 The above shows the shape of representative model. Confirm the actual shape with the drawing or the actual product.
 ※2 When there is no indication of maximum allowable working pressure of your accumulator in the column of "Applicable ACC. MAWP" of the following dimensional table, please contact us.

Dimensional Table

● Bushing

Applicable ACC. MAWP	Item Number	Connection Port Size	A	B	C	D	E	F	
								O-Ring	B.U. Ring
15MPa 21MPa 25MPa	6RCM75R03N25M	Rc3/8	66	20	φ80 (Width across flat 75)	Rc3/8	M75x2	JIS B2401 G65	-
	6RCM75R04N25M	Rc1/2				Rc1/2			
	6RCM75R06N25M	Rc3/4				Rc3/4			
	6RCM75R08N25M	Rc1				Rc1			
	6RCM75R10N25M	Rc1-1/4				Rc1-1/4			
28MPa 33MPa	6RCM75R12N25M	Rc1-1/2	68	20	φ80 (Width across flat 75)	Rc1-1/2	M75x2	JIS B2407 G65	-
	6RCM75R03N35M	Rc3/8				Rc3/8			
	6RCM75R04N35M	Rc1/2				Rc1/2			
	6RCM75R06N35M	Rc3/4				Rc3/4			
	6RCM75R08N35M	Rc1				Rc1			

● Flange (with Counter Flange)




















Applicable ACC. MAWP	Item Number	CPS	A	B	C	H	e	φD	C1	φ d1	φ d2	φ d3	φ d4	φ d5	E	F			
																O-Ring	B.U. Ring	G	
15MPa 21MPa	6FCM7515AX007	15A	100	73	38	84	11	47.5	36	16	22.2	32	M16	18	M75x2	JIS B2401 G65	-	G60	
	6FCM7520AX006	20A								20	27.7	38							
	6FCM7525AX005	25A								25	34.5	45							
	6FCM7532AX004	32A								31.5	43.2	56							
	6FCM7540AX003	40A								37.5	49.1	63							
	6FCM7550AN21M	50A								47.5	61.1	75							
25MPa 28MPa 33MPa	6FCM7565AN21M	65A	128	92	45	91	22	50	45	60	77.1	95	M20	22	M75x2	JIS B2401 G65	-	G75	
	6FCM7532AN35M	32A	92	65	45	93	18	30	36	30	43.2	63	M16	18				JIS B2407 G65	G40
	6FCM7550AN35M	50A	132	92	50	97	25	35	50	35	61.1	84	M20	22					

● Valve Flange

Applicable ACC. MAWP	Item Number	CPS	A	B	C	D	E	F	G		H
									O-Ring	B.U. Ring	
15MPa 21MPa	6FCM7532DN21M	32A	76	56	92	138	M75x2	M12x45	JIS B2401 G65	-	G40
	6FCM7540DX013	40A	92	65	122	168		M16x60			G50
	6FCM7550DN21M	50A	100	73	91	137		M16x55			G60
	6FCM7565DN21M	65A	128	92	64	110		M20x80			G75
25MPa 28MPa 33MPa	6FCM7525DX030	25A	φ106	52	125	173	M75x2	M16x55	JIS B2407 G65	-	G35
	6FCM7550DN35M	50A	132	92	67	115		M20x80			G50

CPS: Connection Port Size MAWP: Maximum Allowable Working Pressure

Accessories/Tools

Maximum Allowable Working Pressure MPa		15	21		25	28	33
Item Number of Accumulator		①②-Y15MP-L60-⑥⑦⑧	①②-Y21MP-L60-⑥⑦⑧		①②-Y25MP-L60-⑥⑦⑧	①②-Y28MP-L60-⑥⑦⑧	①②-Y33MP-L60-⑥⑦⑧
Optional Parts	Gas Charging Tools Kit ※ 1		P204	6GG <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		6GH <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
	For Installation	NACOL Clamp		P200	6KH355		6KH355
		NORMA Clamp		P201	6081C350		6081C350
		Base Mounting Plate (Exclusively for NACOL Clamp)		P199	—		—
		Base Mounting Plate (Exclusively for NORMA Clamp)		P199	—		—
Bladder Replacement	Parts	Bladder		P210	65②YL60A		65②YL60A
		Bladder Back Up Ring			—		640082501120
	Tools	Cap Wrench		P208	6TWH100		6TWH63
Dynac Valve Replacement (DV Spec.)	Parts	Dynac Valve Packing with Valve Stem		P212	645026400A		645026400A
		Spring		P212	645045500		645045500
		Spring Nut		P212	645048200		645048200
	Tools	Spring Nut Key		P212	6TWH04		6TWH04
For Oil Port Valve Assembly	Tools	Ring Nut Wrench		P209	6TWD120		6TWD120
Separately Available Parts	Eye Nut (Hanging Tool)				6HTM42		6HTM42H63
	Valve Cover				645049705		645049705
	Exclusively for Q/R Spec.	SG Valve		P196	6H <input type="checkbox"/> -AV35MP-F03-M42A		6H <input type="checkbox"/> -AV35MP-F03-M42A
		Pressure Gauge Containing Glycerol		P197	6018DUF0206 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> G		6018DUF0206 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> G
		Spring Loaded Type Safety Valve		P198	6H-SV <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> -03-F03		6H-SV <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> -03-F03
Fuse Plug			P197	6H-FP35MP-03-F03		6H-FP35MP-03-F03	

※1 Nitrogen gas charging, inspection, or pressure adjustment requires a gas charging tools kit.
(Only a hose and an adaptor are required for R or Q specification accumulator with SG valve.)

Accumulator

Explanation of Item Number

① ② - ③ ④ ④ ④ ④ - ⑤ ⑤ ⑤ - ⑥ ⑦ ⑧ ⑨ ⑨ ⑨

① APPLICABLE INSPECTION/STANDARD	② BLADDER COMPOUND	MAWP	NOMINAL GAS VOLUME	⑥ SPECIFICATION FOR TOP CAP & GAS CHARGING SIDE
H JAPAN High Pressure Gas Safety Law (Japan)	N Standard Nitrile Rubber (NBR)	④ ④ ④ ④ 1 5 M P	⑤ ⑤ ⑤ L 6 0	A Top Cap Standard Dynac Valve (G thread)
F JAPAN Industrial Safety and Health Act (Japan)	H Nitrile Rubber for High Temp. Use (H.NBR)	2 1 M P		D Top Cap Two Pieces Type (For 25MPa) Dynac Valve (G thread)
M U.S.A. ASME	L Nitrile Rubber for Low Temp. Use (L.NBR)	2 5 M P		Q SG Valve + Safety Valve + Pressure Gauge
S CANADA ASME + B51	F Butyl Rubber (IIR)			R SG Valve + Fuse Plug + Pressure Gauge
A AUSTRALIA AS 1210	E Ethylene Propylene Rubber (EPDM)			
N OTHER NACOL (Manufacturer's) Inspection	C Chloroprene Rubber (CR)			
	G Epichlorohydrin Rubber (CHC)			
	V Fluorine Rubber (FKM)			

※1 Some models may neither be covered by nor support the standards.

※2 MAWP: Maximum Allowable Working Pressure

③ SERIES
Y Y Series

⑦ SPECIFICATION FOR OIL PORT SIDE
E High Flow Type Carbon Steel
G High Flow Type Stainless Steel

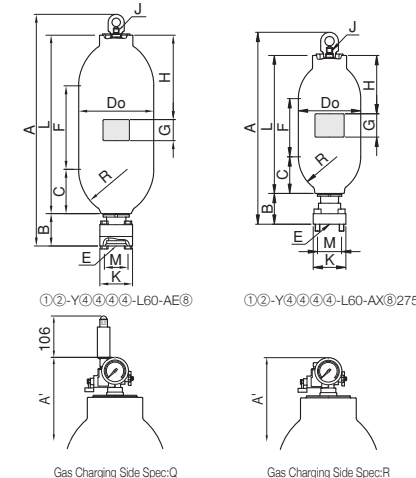
※3 When selecting G, please contact us.

⑧ SPECIFICATION OF SHELL	SURFACE TREATMENT	SERVICE FLUID
C	Inside & Outside Surface : Zinc Phosphate Treatment (Standard)	Petroleum Based Hydraulic Oil & Other Fluid
D	Inside & Outside Surface : Standard Paint Coating	Water + Glycol Fluid
A	Inside & Outside Surface : Standard Paint Coating	Petroleum Based Hydraulic Oil & Other Fluid ※4
B	Inside Surface : Standard Paint Coating Outside Surface : Zinc Phosphate Treatment	Petroleum Based Hydraulic Oil & Other Fluid ※4
N	Inside Surface : Zinc Phosphate Treatment Outside Surface : Standard Paint Coating	Petroleum Based Hydraulic Oil + Glycol Fluid & Other Fluid
W	Inside & Outside Surface : Standard Plating	Water + Glycol Fluid
H	Inside & Outside Surface : Standard Plating	Petroleum Based Hydraulic Oil + Water + Glycol Fluid & Other Fluid

※4 Inner surface coating is unsuitable when using fire resistant fluids that may cause the paint to peel off, such as phosphate ester based fluids and water glycol fluids.

⑨ ⑨ ⑨ SPECIAL SPECIFICATION
*** For special specifications, the item number designation includes a three-digit number.

Dimensional Drawing



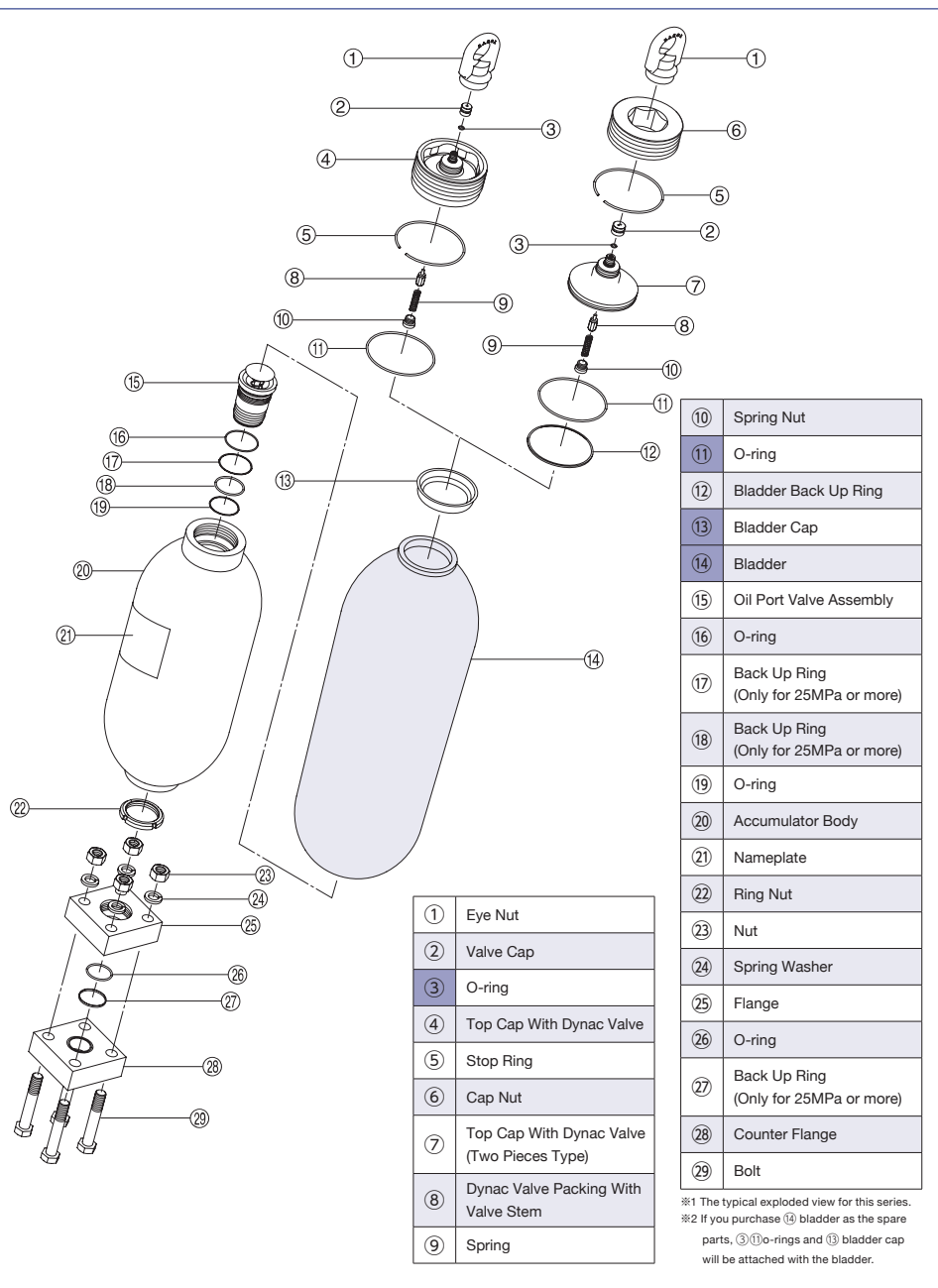
Dimensional Table

Maximum Allowable Working Pressure MPa	Item Number	Nominal Gas Volume L	Mass kg	A ⁺¹⁷ ₀ mm	A ⁺¹⁷ ₀ mm	L mm	B mm	C mm	F mm	H mm	G mm	φDo±1% mm	□K mm	□M mm	R mm	E	J	Allowable Oil Flow Rate [When Vertically Installed] 16-320cSt	Possible Oil Flow Rate
15	①② - Y 1 5 M P - L 6 0 - ⑥ E ⑧	60	190	1,341	1,347	1,088	154	210	638	400	90	355.6	155	112 (M22x140)	210	MAX.80A	G1/4	1,800L/min	6,000L/min ※ 6
	①② - Y 1 5 M P - L 6 0 - ⑥ X ⑧ 275		176	1,291	1,297		104							112 (M22x55)		φ68mm			
21	①② - Y 2 1 M P - L 6 0 - ⑥ E ⑧	60	240	1,341	1,347	1,088	154	210	638	400	90	355.6	155	112 (M22x140)	230	MAX.80A	G1/4	1,800L/min	6,000L/min ※ 6
	①② - Y 2 1 M P - L 6 0 - ⑥ X ⑧ 275		226	1,291	1,297		104							112 (M22x55)		φ68mm			
25	①② - Y 2 5 M P - L 6 0 - ⑥ E ⑧	60	270	1,372	1,378	1,088	185	210	638	400	90	355.6	190	130 (M30x180)	230	MAX.80A	G3/8	1,800L/min	6,000L/min ※ 6

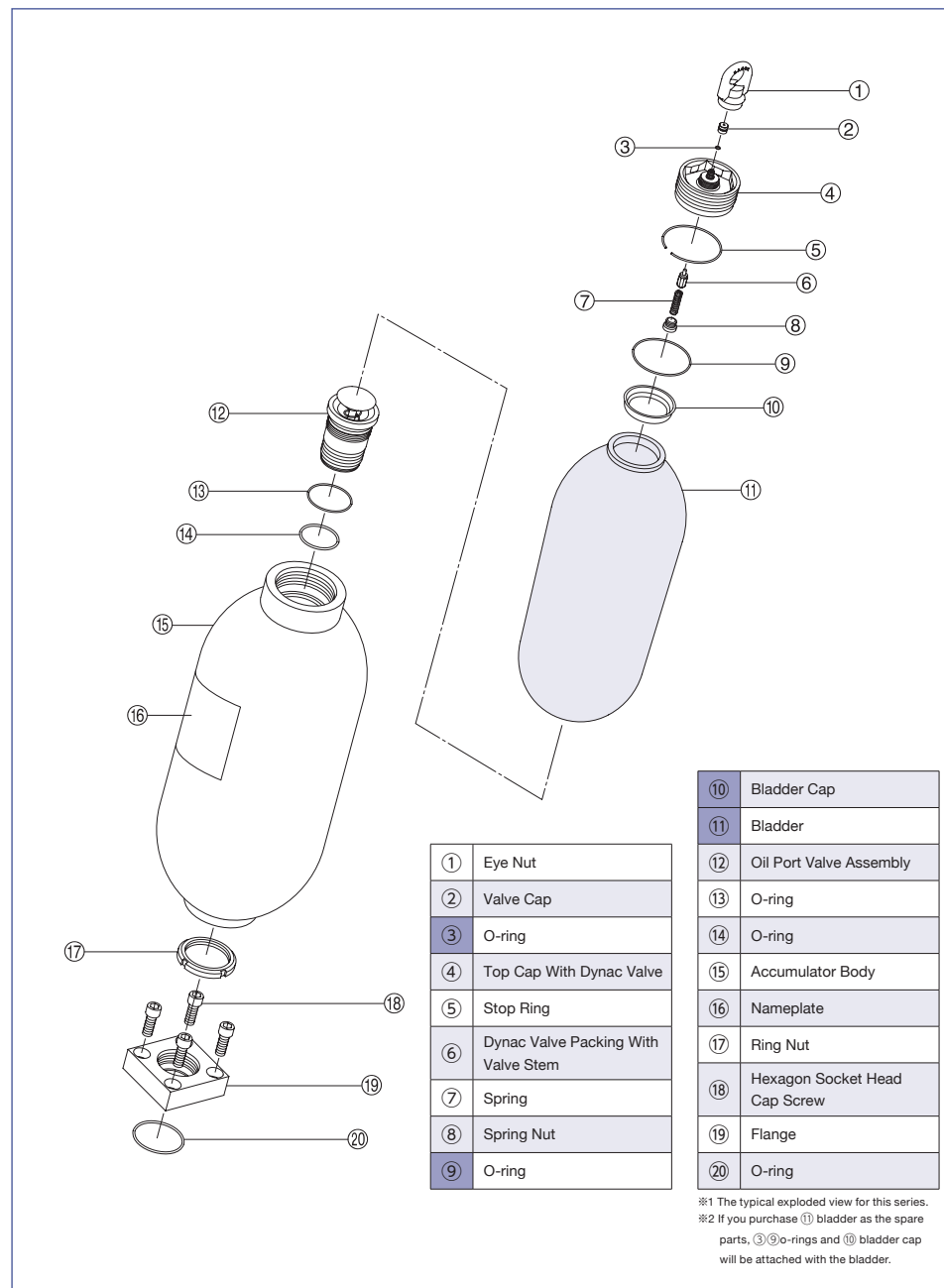
※5 Dimensions without tolerance indication are for reference. Please confirm the dimensions with the actual product.

※6 Maximum oil flow rate available under certain conditions.




















Typical Exploded View



Typical Exploded View



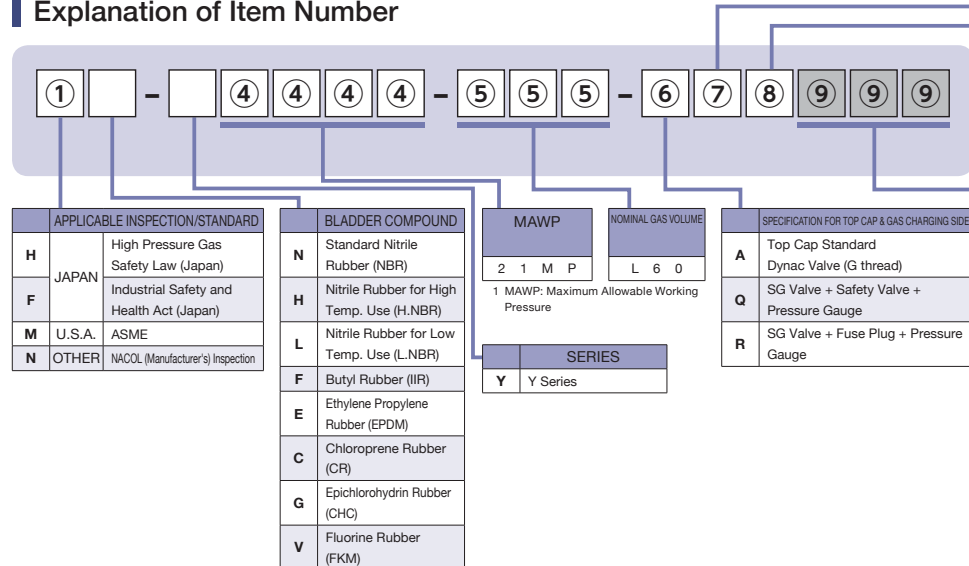
Accessories/Tools

Maximum Allowable Working Pressure MPa			15	21		25
Item Number of Accumulator			①②-Y15MP-L60-⑥X⑥	①②-Y21MP-L60-⑥X⑥		①②-Y25MP-L60-⑥⑦⑧
			①②-Y15MP-L60-⑥X⑥275	①②-Y21MP-L60-⑥X⑥275		
Optional Parts	Gas Charging Tools Kit ※ 1		 P204	6GG <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		6GH <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>
	For Installation	NACOL Clamp	 P200	6KH355		6KH355
		NORMA Clamp	 P201	6081C350		6081C350
		Base Mounting Plate (Exclusively for NACOL Clamp)	 P199	—		—
		Base Mounting Plate (Exclusively for NORMA Clamp)	 P199	—		—
Bladder Replacement	Parts	Bladder	 P210	65②YL60A		65②YL60A
		Bladder Back Up Ring		—		640082501120
	Tools	Cap Wrench	 P208	6TWH100		6TWH63
Dynac Valve Replacement (DV Spec.)	Parts	Dynac Valve Packing with Valve Stem	 P212	645026400A		645026400A
		Spring	 P212	645045500		645045500
		Spring Nut	 P212	645048200		645048200
	Tools	Spring Nut Key	 P212	6TWH04		6TWH04
For Oil Port Valve Assembly	Tools	Ring Nut Wrench	 P209	6TWD120		6TWD120
Separately Available Parts	Eye Nut (Hanging Tool)			6HTM42		6HTM42H63
	Valve Cover			645049705		645049705
	Exclusively for Q/R Spec.	SG Valve	 P196	6H <input type="checkbox"/> -AV35MP-F03-M42A		6H <input type="checkbox"/> -AV35MP-F03-M42A
		Pressure Gauge Containing Glycerol	 P197	6018DUF0206 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> G		6018DUF0206 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> G
		Spring Loaded Type Safety Valve	 P198	6H-SV <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> -03-F03		6H-SV <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> -03-F03
		Fuse Plug	 P197	6H-FP35MP-03-F03		6H-FP35MP-03-F03

※1 Nitrogen gas charging, inspection, or pressure adjustment requires a gas charging tools kit.
(Only a hose and an adaptor are required for R or Q specification accumulator with SG valve.)

Accumulator

Explanation of Item Number



⑦	SPECIFICATION FOR OIL PORT SIDE
Y	Super High Flow Type Carbon Steel
M	Super High Flow Type Stainless Steel

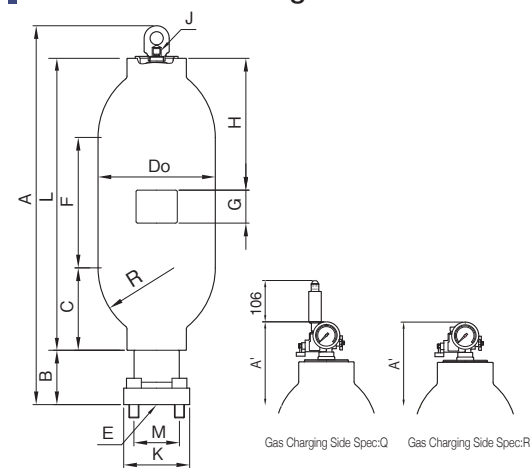
2 When selecting M, please contact us.

SPECIFICATION OF SHELL	SURFACE TREATMENT	SERVICE FLUID
C	Inside & Outside Surface : Zinc Phosphate Treatment (Standard)	Petroleum Based Hydraulic Oil & Other Fluid
D		Water + Glycol Fluid
A	Inside & Outside Surface : Standard Paint Coating	Petroleum Based Hydraulic Oil & Other Fluid
B	Inside Surface : Standard Paint Coating	Petroleum Based Hydraulic Oil & Other Fluid
Material (Carbon Steel)	Outside Surface : Zinc Phosphate Treatment	Water + Glycol Fluid
N	Inside Surface : Zinc Phosphate Treatment	Petroleum Based Hydraulic Oil & Other Fluid
W	Outside Surface : Standard Paint Coating	Water + Glycol Fluid
H	Inside & Outside Surface : Standard Plating	Petroleum Based Hydraulic Oil + Water + Glycol Fluid & Other Fluid

3 Inner surface coating is unsuitable when using fire resistant fluids that may cause the paint to peel off, such as phosphate ester based fluids and water glycol fluids.

SPECIAL SPECIFICATION	
***	For special specifications, the item number designation includes a three-digit number.

Dimensional Drawing



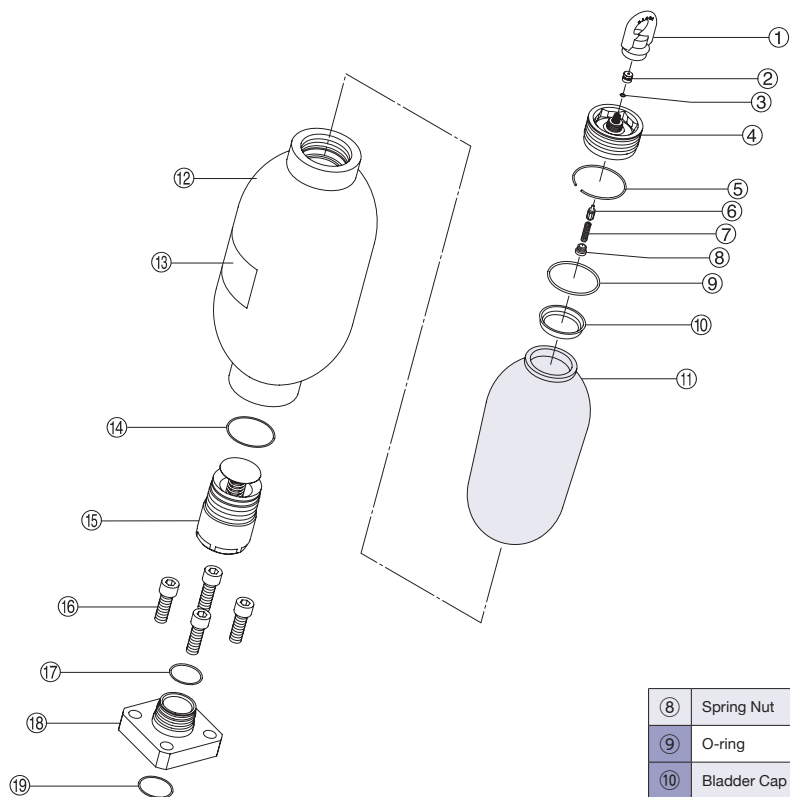
Dimensional Table

Maximum Allowable Working Pressure MPa	Item Number	Nominal Gas Volume L	Mass kg	A ⁺¹⁷ ₀ mm	A' ⁺¹⁷ ₀ mm	L mm	B mm	C mm	F mm	H mm	G mm	φDo±1% mm	□K mm	□M mm	R mm	E mm	J mm	Allowable Oil Flow Rate [When Vertically Installed] 16-320cSt	Possible Oil Flow Rate
	①② - Y 2 1 M P - L 6 0 - ⑥ Y ⑧	60	250	1,408	1,414	1,144	165	250	654	400	90	355.6	200	138(M30x90)	230	φ75mm	G1/4	3,600L/min	7,200L/min ₅

4 Dimensions without tolerance indication are for reference. Please confirm the dimensions with the actual product.

5 Maximum oil flow rate available under certain conditions.

Typical Exploded View



①	Eye Nut
②	Valve Cap
③	O-ring
④	Top Cap With Dynac Valve
⑤	Stop Ring
⑥	Dynac Valve Packing With Valve Stem
⑦	Spring

⑧	Spring Nut
⑨	O-ring
⑩	Bladder Cap
⑪	Bladder
⑫	Accumulator Body
⑬	Nameplate
⑭	O-ring
⑮	Oil Port Valve Assembly
⑯	Hexagon Socket Head Cap Bolt
⑰	O-ring
⑱	Flange
⑲	O-ring

※1 The typical exploded view for this series.

※2 If you purchase ⑪ bladder as the spare parts, ③ ⑤ O-rings and ⑱ bladder cap will be attached with the bladder.

Accessories/Tools

Maximum Allowable Working Pressure MPa		21		
		①②-Y21MP-L60-③Y④		
Optional Parts	Gas Charging Tools Kit ※ 1	P204	6GG <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
	For Installation	NACOL Clamp	P200	6KH355
		NORMA Clamp	P201	6081C350
		Base Mounting Plate (Exclusively for NACOL Clamp)	P199	—
		Base Mounting Plate (Exclusively for NORMA Clamp)	P199	—
Bladder Replacement	Parts	Bladder	P210	65②Y⑤⑤⑤A
	Parts	Bladder Back Up Ring		—
	Tools	Cap Wrench	P208	6TWH100
Dynac Valve Replacement (DV Spec.)	Parts	Dynac Valve Packing with Valve Stem	P212	645026400A
		Spring	P212	645045500
		Spring Nut	P212	645048200
	Tools	Spring Nut Key	P212	6TWH04
For Oil Port Valve Assembly	Tools	Ring Nut Wrench	P209	— (Please use a commercially available wrench.)
Separately Available Parts	Eye Nut (Hanging Tool)			6HTM42
	Valve Cover			645049705
	Exclusively for Q/R Spec.	SG Valve	P196	6H <input type="checkbox"/> -AV35MP-F03-M42A
		Pressure Gauge Containing Glycerol	P197	6018DUF0206 <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> G
		Spring Loaded Type Safety Valve	P198	6H-SV <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> -03-F03
		Fuse Plug	P197	6H-FP35MP-03-F03

※1 Nitrogen gas charging, inspection, or pressure adjustment requires a gas charging tools kit. (Only a hose and an adaptor are required for R or Q specification accumulator with SG valve.)