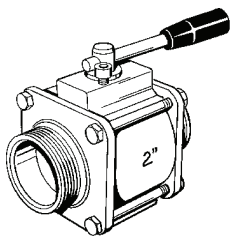
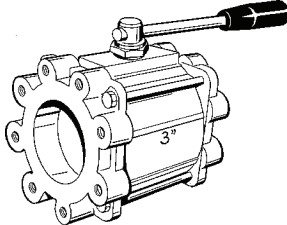
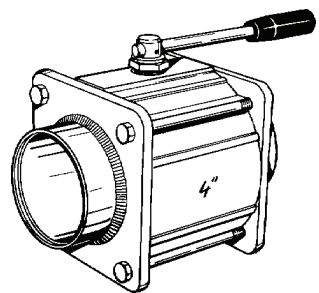


98-01	1/ Inch DN Dim.	3/ Connection Anschluss Anslutning	4/2/ Matr.Flange Werkst.flansch Material fläns	Seal Dichtung Tätning	Weight Gewicht Vikt	Code no. Bestellnummer. Beställningsnummer	Illustration Abbildung Bild		
DESIGN MAY CHANGE WITHOUT NOTICE -	2" DN 50	-	-	Flange seal - Flanschdichtung - Flänstätning: FPM (Vitron). Ball seal - Kugeldichtung - Kullätning: PTFE (Teflon).	1,1 kg/2,3 lb	5120C-1107	<p>Material/Verksstoff/Material:</p> <p>Ball/Kugel/Kula: Al Body/Gehäuse/Hus: Al Spindle/Spindel/Spindel: Rg Guidering/Dichtring/Plättring: St</p> 		
		F.BSP 1½"	Al		2,0 kg/4,4 lb	5122C-1107			
		F.NPT 1½"			2,1 kg/4,6 lb	8122C-1107			
		F.BSP 2"	Al		1,9 kg/4,2 lb	5129C-1107			
			St		2,5 kg/5,5 lb	5121C-1107			
		F.NPT 2"	Al		2,0 kg/4,4 lb	8129C-1107			
			St		2,5 kg/5,5 lb	8121C-1107			
		M.BSP 2"	Al		1,9 kg/4,2 lb	5127C-1107			
			St		2,2 kg/4,9 lb	5128C-1107			
		M.NPT 2"	Al		2,0 kg/4,4 lb	8127C-1107			
			St		2,3 kg/5,1 lb	8128C-1107			
		W.Ø 50-70	St		2,1 kg/4,6 lb	5126C-1107			
		W.Ø 57	Al		2,1 kg/4,6 lb	5123C-1107			
		W.Ø 60	St		2,3 kg/5,1 lb	5125C-1107			
	TW1 DN 50	Al	4,3 kg/9,5 lb		5124A-1107				
		3" DN 80	-		-	2,2 kg/4,9 lb		5130A-1107	
	F.BSP 3"		Al		3,6 kg/7,9 lb	5139A-1107			
			St		4,7 kg/10,4 lb	5131A-1107			
	F.NPT 3"		Al		3,7 kg/8,2 lb	8139A-1107			
			St		4,8 kg/10,6 lb	8131A-1107			
	M.BSP 3"		Al		3,9 kg/8,6 lb	5137A-1107			
			St		4,5 kg/9,9 lb	5138A-1107			
	M.NPT 3"		Al		4,0 kg/8,8 lb	8137A-1107			
			St		4,6 kg/10,1 lb	8138A-1107			
	W.Ø 70-90		St		4,1 kg/9,0 lb	5136A-1107			
	W.Ø 76		Al		3,9 kg/8,6 lb	8133A-1107			
			St		4,7 kg/10,4 lb	5132A-1107			
	W.Ø 89		Al		3,7 kg/8,2 lb	5133A-1107			
			St		4,8 kg/10,6 lb	5135A-1107			
	TW1 DN 80	Al	4,8 kg/10,6 lb		5134A-1107				
		4" DN 100	-		-	3,3 kg/7,3 lb		5140A-1107	
	F.BSP 4"		Al		6,7 kg/14,8 lb	5149A-1107			
			St		9,4 kg/20,7 lb	5141A-1107			
	F.NPT 4"		Al		6,8 kg/15,0 lb	8149A-1107			
			St		9,5 kg/20,9 lb	8141A-1107			
	M.BSP 4"		Al		7,4 kg/16,3 lb	5147A-1107			
			St		9,4 kg/20,7 lb	5148A-1107			
	M.NPT 4"		Al		7,5 kg/16,5 lb	8147A-1107			
			St		9,5 kg/20,9 lb	8148A-1107			
	W.Ø 90/100		Al		6,8 kg/15,0 lb	8143A-1107			
W.Ø 90-120	St		8,5 kg/18,7 lb	5146A-1107					
W.Ø 102	St		9,4 kg/20,7 lb	5142A-1107					
W.Ø 108	Al		6,8 kg/15,0 lb	5143A-1107					
W.Ø 114	St		9,7 kg/21,4 lb	5145A-1107					
TW3 DN 100	Al	7,4 kg/16,3 lb	5144A-1107						

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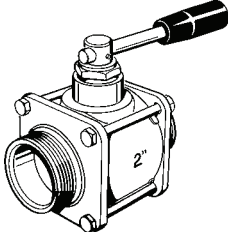
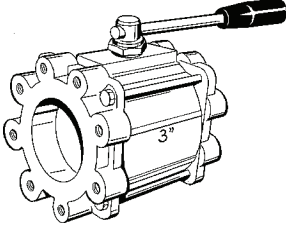
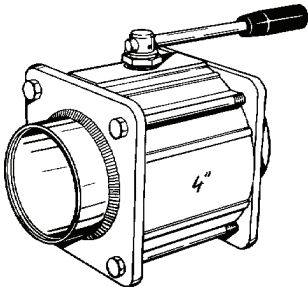
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1/ Dimension Ball Valve

2/ Materials: St=Steel, SS=Stainless Steel, Rg=Gunmetal/Brass, Al=Aluminium.

3/ F=Female thread/Innengewinde/Invändig gänga.
M=Male thread/Aussengewinde/Ürvändig gänga.
W=Flange for welding/Schweißflansch/Svetsfläns.

4/ Threads/Gewinde/Gängor:
BSP=ISO 228, NPT=ANSI B1.20.3

98-01	Inch	Connection	Matr.Flange	Seal	Weight	Code no.	Illustration		
DESIGN MAY CHANGE WITHOUT NOTICE -	2" DN 50	-	-	PTFE (Teflon). PTFE (Teflon). Flange seal - Ball seal -	1,1 kg/2,3 lb	5120-1109	<p>Material/Verksstoff/Material:</p> <p>Ball/Kugel/Kula: Al</p> <p>Body/Gehäuse/Hus: Al</p> <p>Spindle/Spindel/Spindel: Rg</p> <p>Guidering/Dichtring/Plåtring: St</p> 		
		F.BSP 1½"	Al		2,0 kg/4,4 lb	5122-1109			
		F.NPT 1½"			2,1 kg/4,6 lb	8122-1109			
		F.BSP 2"	Al		1,9 kg/4,2 lb	5129-1109			
					St	2,5 kg/5,5 lb		5121-1109	
		F.NPT 2"	Al		2,0 kg/4,4 lb	8129-1109			
					St	2,5 kg/5,5 lb		8121-1109	
		M.BSP 2"	Al		1,9 kg/4,2 lb	5127-1109			
					St	2,2 kg/4,9 lb		5128-1109	
		M.NPT 2"	Al		2,0 kg/4,4 lb	8127-1109			
					St	2,3 kg/5,1 lb		8128-1109	
		W.Ø 50-70	St		2,1 kg/4,6 lb	5126-1109			
		W.Ø 57	Al		2,1 kg/4,6 lb	5123-1109			
		W.Ø 60	St		2,3 kg/5,1 lb	5125-1109			
	TW1 DN 50	Al	4,3 kg/9,5 lb		5124A-1109				
	3" DN 80	-	-		PTFE (Teflon). PTFE (Teflon). Flange seal - Ball seal -	2,2 kg/4,9 lb		5130A-1109	
		F.BSP 3"	Al			3,6 kg/7,9 lb		5139A-1109	
						St		4,7 kg/10,4 lb	
		F.NPT 3"	Al			3,7 kg/8,2 lb		8139A-1109	
						St		4,8 kg/10,6 lb	
		M.BSP 3"	Al			3,9 kg/8,6 lb		5137A-1109	
						St		4,5 kg/9,9 lb	
		M.NPT 3"	Al			4,0 kg/8,8 lb		8137A-1109	
						St		4,6 kg/10,1 lb	
		W.Ø 70-90	St			4,1 kg/9,0 lb		5136A-1109	
		W.Ø 76	Al			3,9 kg/8,6 lb		8133A-1109	
			St			4,7 kg/10,4 lb		5132A-1109	
		W.Ø 89	Al			3,7 kg/8,2 lb		5133A-1109	
			St			4,8 kg/10,6 lb		5135A-1109	
	TW1 DN 80	Al	4,8 kg/10,6 lb		5134A-1109				
	4" DN 100	-	-		PTFE (Teflon). PTFE (Teflon). Flange seal - Ball seal -	3,3 kg/7,3 lb		5140A-1109	
		F.BSP 4"	Al			6,7 kg/14,8 lb		5149A-1109	
						St		9,4 kg/20,7 lb	
		F.NPT 4"	Al			6,8 kg/15,0 lb		8149A-1109	
						St		9,5 kg/20,9 lb	
		M.BSP 4"	Al			7,4 kg/16,3 lb		5147A-1109	
						St		9,4 kg/20,7 lb	
		M.NPT 4"	Al			7,5 kg/16,5 lb		8147A-1109	
						St		9,5 kg/20,9 lb	
		W.Ø 90/100	Al			6,8 kg/15,0 lb		8143A-1109	
W.Ø 90-120		St	8,5 kg/18,7 lb	5146A-1109					
W.Ø 102		St	9,4 kg/20,7 lb	5142A-1109					
W.Ø 108		Al	6,8 kg/15,0 lb	5143A-1109					
W.Ø 114		St	9,7 kg/21,4 lb	5145A-1109					
TW3 DN 100	Al	7,4 kg/16,3 lb	5144A-1109						

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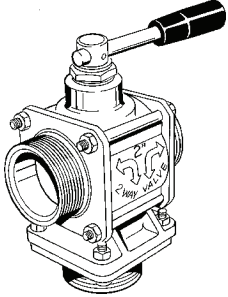
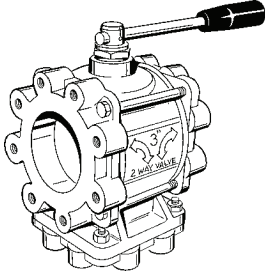
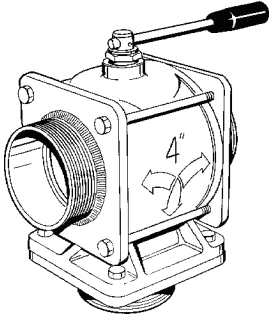
1/ Dimension Ball Valve

2/ Materials: St=Steel, SS=Stainless Steel, Rg=Gunmetal/Brass, Al=Aluminium.

3/ F=Female thread/Innengewinde/Invändig gänga.
M=Male thread/Aussengewinde/Utvändig gänga.
W=Flange for welding/Schweißflansch/Svetsflås.

4/ Threads/Gewinde/Gångor:
BSP=ISO 228, NPT=ANSI B 1.20.3

TODO

98-01	Inch	Connection	Matr.Flange	Seal	Weight	Code no.	Illustration		
DESIGN MAY CHANGE WITHOUT NOTICE -	2" DN 50	-	-	FPM (Viton). PTFE (Teflon). Flange seal - Ball seal -	1,2 kg/2,6 lb	5220-1107	<p>Material/Verksstoff/Material:</p> <p>Ball/Kugel/Kula: Al</p> <p>Body/Gehäuse/Hus: Al</p> <p>Spindle/Spindel/Spindel: Rg</p> <p>Guidering/Dichtring/Plåtring: St</p>   		
		F.BSP 1½"	Al		2,5 kg/5,5 lb	5222-1107			
		F.NPT 1½"			2,6 kg/5,7 lb	8222-1107			
		F.BSP 2"	Al		2,3 kg/5,1 lb	5229-1107			
			St		3,1 kg/6,8 lb	5221-1107			
		F.NPT 2"	Al		2,5 kg/5,5 lb	8229-1107			
			St		3,2 kg/7,1 lb	8221-1107			
		M.BSP 2"	Al		2,3 kg/5,1 lb	5227-1107			
			St		2,8 kg/6,2 lb	5228-1107			
		M.NPT 2"	Al		2,5 kg/5,5 lb	8227-1107			
			St		2,8 kg/6,2 lb	8228-1107			
		W.Ø 50-70	St		2,6 kg/5,7 lb	5226-1107			
		W.Ø 57	Al		2,6 kg/5,7 lb	5223-1107			
		W.Ø 60	St		2,9 kg/6,4 lb	5225-1107			
	TW1 DN 50	Al	5,2 kg/11,5 lb		5224-1107				
		3" DN 80	-		-	2,2 kg/4,9 lb		5230-1107	
	F.BSP 3"		Al		4,2 kg/9,3 lb	5239-1107			
			St		5,9 kg/13,0 lb	5231-1107			
	F.NPT 3"		Al		4,4 kg/9,7 lb	8239-1107			
			St		6,0 kg/13,2 lb	8231-1107			
	M.BSP 3"		Al		4,6 kg/10,1 lb	5237-1107			
			St		5,6 kg/12,3 lb	5238-1107			
	M.NPT 3"		Al		4,8 kg/10,6 lb	8237-1107			
			St		5,7 kg/12,6 lb	8238-1107			
	W.Ø 70-90		St		4,9 kg/10,8 lb	5236-1107			
	W.Ø 76		Al		4,6 kg/10,1 lb	8233-1107			
			St		5,9 kg/13,0 lb	5232-1107			
	W.Ø 89		Al		4,3 kg/9,5 lb	5233-1107			
			St		5,9 kg/13,0 lb	5235-1107			
	TW1 DN 80	Al	6,1 kg/13,4 lb		5234-1107				
		4" DN 100	-		-	4,2 kg/9,3 lb		5240-1107	
	F.BSP 4"		Al		6,9 kg/15,2 lb	5249-1107			
			St		10,9 kg/24,0 lb	5241-1107			
	F.NPT 4"		Al		6,7 kg/14,8 lb	8249-1107			
			St		11,0 kg/24,3 lb	8241-1107			
	M.BSP 4"		Al		7,9 kg/17,4 lb	5247-1107			
			St		10,9 kg/24,0 lb	5248-1107			
	M.NPT 4"		Al		8,1 kg/17,9 lb	8247-1107			
			St		11,0 kg/24,3 lb	8248-1107			
	W.Ø 90/100		Al		7,0 kg/15,4 lb	8243-1107			
W.Ø 90-120	St		9,6 kg/21,2 lb	5246-1107					
W.Ø 102	St		10,9 kg/24,0 lb	5242-1107					
W.Ø 108	Al		7,0 kg/15,4 lb	5243-1107					
W.Ø 114	St		11,4 kg/25,1 lb	5245-1107					
TW3 DN 100	Al	7,9 kg/17,4 lb	5244-1107						

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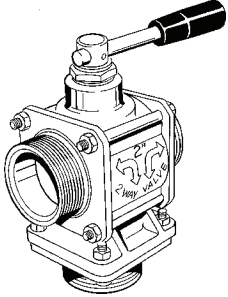
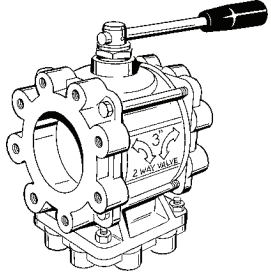
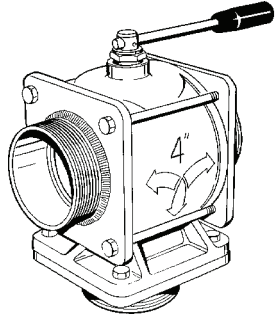
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1/ Dimension Ball Valve

2/ Materials: St=Steel, SS=Stainless Steel, Rg=Gunmetal/Brass, Al=Aluminium.

3/ F=Female thread/Inngängande/Utvändig gänga.
M=Male thread/Aussengängande/Invändig gänga.
W=Flange for welding/Schweißflansch/Svetsflans.

4/ Threads/Gewinde/Gångor:
BSP=ISO 228, NPT=ANSI B1.20.3

98-01	Inch	Connection	Matr.Flange	Seal	Weight	Code no.	Illustration		
DESIGN MAY CHANGE WITHOUT NOTICE -	2" DN 50	-	-	PTFE (Teflon). PTFE (Teflon). Flange seal - Ball seal -	1,2 kg/2,6 lb	5220-1109	<p>Material/Verksstoff/Material:</p> <p>Ball/Kugel/Kula: Al</p> <p>Body/Gehäuse/Hus: Al</p> <p>Spindle/Spindel/Spindel: Rg</p> <p>Guidering/Dichtring/Plåtring: St</p>   		
		F.BSP 1½"	Al		2,5 kg/5,5 lb	5222-1109			
		F.NPT 1½"			2,6 kg/5,7 lb	8222-1109			
		F.BSP 2"	Al		2,3 kg/5,1 lb	5229-1109			
					St	3,1 kg/6,8 lb		5221-1109	
		F.NPT 2"	Al		2,5 kg/5,5 lb	8229-1109			
					St	3,2 kg/7,1 lb		8221-1109	
		M.BSP 2"	Al		2,3 kg/5,1 lb	5227-1109			
					St	2,8 kg/6,2 lb		5228-1109	
		M.NPT 2"	Al		2,5 kg/5,5 lb	8227-1109			
					St	2,8 kg/6,2 lb		8228-1109	
		W.Ø 50-70	St		2,6 kg/5,7 lb	5226-1109			
		W.Ø 57	Al		2,6 kg/5,7 lb	5223-1109			
		W.Ø 60	St		2,9 kg/6,4 lb	5225-1109			
	TW1 DN 50	Al	5,2 kg/11,5 lb		5224-1109				
	3" DN 80	-	-		PTFE (Teflon). PTFE (Teflon). Flange seal - Ball seal -	2,2 kg/4,9 lb		5230-1109	
		F.BSP 3"	Al			4,2 kg/9,3 lb		5239-1109	
						St		5,9 kg/13,0 lb	5231-1109
		F.NPT 3"	Al			4,4 kg/9,7 lb		8239-1109	
						St		6,0 kg/13,2 lb	8231-1109
		M.BSP 3"	Al			4,6 kg/10,1 lb		5237-1109	
						St		5,6 kg/12,3 lb	5238-1109
		M.NPT 3"	Al			4,8 kg/10,6 lb		8237-1109	
						St		5,7 kg/12,6 lb	8238-1109
		W.Ø 70-90	St			4,9 kg/10,8 lb		5236-1109	
		W.Ø 76	Al			4,6 kg/10,1 lb		8233-1109	
			St			5,9 kg/13,0 lb		5232-1109	
		W.Ø 89	Al			4,3 kg/9,5 lb		5233-1109	
			St			5,9 kg/13,0 lb		5235-1109	
	TW1 DN 80	Al	6,1 kg/13,4 lb		5234-1109				
	4" DN 100	-	-		PTFE (Teflon). PTFE (Teflon). Flange seal - Ball seal -	4,2 kg/9,3 lb		5240-1109	
		F.BSP 4"	Al			6,9 kg/15,2 lb		5249-1109	
						St		10,9 kg/24,0 lb	5241-1109
		F.NPT 4"	Al			6,7 kg/14,8 lb		8249-1109	
						St		11,0 kg/24,3 lb	8241-1109
		M.BSP 4"	Al			7,9 kg/17,4 lb		5247-1109	
						St		10,9 kg/24,0 lb	5248-1109
		M.NPT 4"	Al			8,1 kg/17,9 lb		8247-1109	
						St		11,0 kg/24,3 lb	8248-1109
		W.Ø 90/100	Al			7,0 kg/15,4 lb		8243-1109	
W.Ø 90-120		St	9,6 kg/21,2 lb	5246-1109					
W.Ø 102		St	10,9 kg/24,0 lb	5242-1109					
W.Ø 108		Al	7,0 kg/15,4 lb	5243-1109					
W.Ø 114		St	11,4 kg/25,1 lb	5245-1109					
TW3 DN 100	Al	7,9 kg/17,4 lb	5244-1109						

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1/ Dimension Ball Valve

2/ Materials: St=Steel, SS=Stainless Steel, Rg=Gunmetal/Brass, Al=Aluminium.

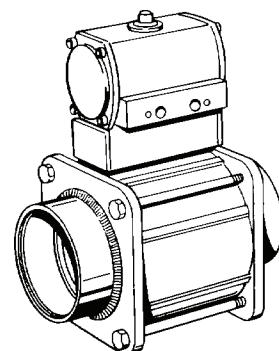
3/ F=Female thread/Inngewinde/Invändig gänga.
M=Male thread/Aussengewinde/Urvädig gänga.
W=Flange for welding/Schweissflansch/Svetsflås.

4/ Threads/Gewinde/Gångor:
BSP=ISO 228, NPT=ANSI B1.20.3

Todo Ball-Valves Dim. 2"-4", 150 PSI, in aluminium with pneumatic actuator (double acting). Flanges available in aluminium or steel (other material on request).

T O D O

98-01	1/ Inch	3/ Connection	4/ 2/ Matr.flange	Seal	Weight	Code no.	Figure							
DESIGN MAY CHANGE WITHOUT NOTICE -	2" DN 50	-	-	FPM (Viton).	PTFE (Teflon).	2,2 kg/4,9 lb	9120C-1107	<p>Material/Verksstoff/Material:</p> <p>Ball/Kugel/Kula: Al</p> <p>Body/Gehäuse/Hus: Al</p> <p>Spindle/Spindel/Spindel: Rg</p> <p>Guidering/Dichtring/Plåtring: St</p>						
		F.BSP 1½"	Al			3,1 kg/6,9 lb	9122C-1107							
		F.NPT 1½"				3,2 kg/7,1 lb	9172C-1107							
		F.BSP 2"	Al			3,0 kg/6,6 lb	9129C-1107							
		F.NPT 2"	St			3,6 kg/7,9 lb	9121C-1107							
			Al			3,1 kg/6,9 lb	9179C-1107							
		M.BSP 2"	St			3,6 kg/7,9 lb	9171C-1107							
			Al			3,0 kg/6,6 lb	9127C-1107							
		M.NPT 2"	St			3,3 kg/7,3 lb	9128C-1107							
			Al			3,1 kg/6,9 lb	9177C-1107							
		W.Ø 50-70	St			3,4 kg/7,5 lb	9178C-1107							
		W.Ø 57	Al			3,2 kg/7,1 lb	9126C-1107							
		W.Ø 60	St			3,2 kg/7,1 lb	9123C-1107							
		TW1 DN 50	Al			3,4 kg/7,5 lb	9125C-1107							
							5,4 kg/11,9 lb		9124A-1107					
	3" DN 80	-	-			Flange seal -	Ball seal -		4,0 kg/8,8 lb	9130A-1107				
		F.BSP 3"	Al						5,4 kg/11,9 lb	9139A-1107				
			St						6,5 kg/14,4 lb	9131A-1107				
		F.NPT 3"	Al						5,5 kg/12,2 lb	9189A-1107				
			St						6,6 kg/14,6 lb	9181A-1107				
		M.BSP 3"	Al						5,7 kg/12,6 lb	9137A-1107				
			St						6,3 kg/13,9 lb	9138A-1107				
		M.NPT 3"	Al						5,8 kg/12,8 lb	9187A-1107				
			St						6,4 kg/14,2 lb	9188A-1107				
		W.Ø 70-90	St						5,9 kg/13,0 lb	9136A-1107				
		W.Ø 76	Al						5,7 kg/12,6 lb	9183A-1107				
		W.Ø 89	St						6,5 kg/14,4 lb	9132A-1107				
			Al						5,5 kg/12,2 lb	9133A-1107				
		TW1 DN 80	St						6,6 kg/14,6 lb	9135A-1107				
	Al		6,6 kg/14,6 lb						9134A-1107					
	4" DN 100	-	-						Flange seal -	Ball seal -	5,1 kg/11,3 lb	9140A-1107		
		F.BSP 4"	Al								8,5 kg/18,8 lb	9149A-1107		
			St								11,2 kg/24,8 lb	9141A-1107		
		F.NPT 4"	Al								8,6 kg/19,0 lb	9199A-1107		
			St								11,3 kg/25,0 lb	9191A-1107		
		M.BSP 4"	Al								19,2 kg/20,3 lb	9147A-1107		
			St								11,2 kg/24,8 lb	9148A-1107		
		M.NPT 4"	Al								9,3 kg/20,6 lb	9197A-1107		
			St								11,3 kg/25,0 lb	9198A-1107		
		W.Ø 90/100	Al								8,6 kg/19,0 lb	9193A-1107		
		W.Ø 90-120	St								10,3 kg/22,8 lb	9146A-1107		
		W.Ø 102	St								11,2 kg/24,8 lb	9142A-1107		
		W.Ø 108	Al								8,6 kg/19,0 lb	9143A-1107		
		W.Ø 114	St								11,5 kg/25,4 lb	9145A-1107		
	TW3 DN 100	Al	9,2 kg/20,3 lb								9144A-1107			



Eftertryck av text och/eller bild förbjuder utan innehavarens skriftliga tillstånd.

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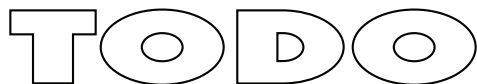
1/ Dimension Ball Valve

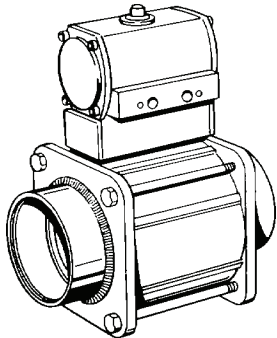
2/ Materials: St=Steel, SS=Stainless Steel, Rg=Gunmetal/Brass, Al=Aluminium.

3/ F=Female thread/Innengewinde/Invändig gänga.
M=Male thread/Aussengewinde/Urvändig gänga.
W=Flange for welding/Schweisflansch/Svetsflåns.

4/ Threads/Gewinde/Gångor:
BSP=ISO 228, NPT=ANSI B 1.20.3

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98-01	1/ Inch	3/ Connection	4/ 2/ Matr.flange	Seal	Weight	Codeno.	Figure				
DESIGN MAY CHANGE WITHOUT NOTICE -	2" DN 50	-	-	PTFE (Teflon).	2,2 kg/4,9 lb	9120-1109	<p>Material/Verksstoff/Material:</p> <p>Ball/Kugel/Kula: Al</p> <p>Body/Gehäuse/Hus: Al</p> <p>Spindle/Spindel/Spindel: Rg</p> <p>Guidering/Dichtring/Plåtring: St</p> 				
		F.BSP 1½"	Al		3,1 kg/6,9 lb	9122-1109					
		F.NPT 1½"	Al		3,2 kg/7,1 lb	9172-1109					
		F.BSP 2"	Al		3,0 kg/6,6 lb	9129-1109					
			St		3,6 kg/7,9 lb	9121-1109					
		F.NPT 2"	Al		3,1 kg/6,9 lb	9179-1109					
			St		3,6 kg/7,9 lb	9171-1109					
		M.BSP 2"	Al		3,0 kg/6,6 lb	9127-1109					
			St		3,3 kg/7,3 lb	9128-1109					
		M.NPT 2"	Al		3,1 kg/6,9 lb	9177-1109					
			St		3,4 kg/7,5 lb	9178-1109					
		W.Ø 50-70	St		3,2 kg/7,1 lb	9126-1109					
		W.Ø 57	Al		3,2 kg/7,1 lb	9123-1109					
		W.Ø 60	St		3,4 kg/7,5 lb	9125-1109					
	TW1 DN 50	Al	5,4 kg/11,9 lb		9124A-1109						
	3" DN 80	-	-		Flange seal -	Ball seal -		4,0 kg/8,8 lb	9130A-1109		
		F.BSP 3"	Al					5,4 kg/11,9 lb	9139A-1109		
			St					6,5 kg/14,4 lb	9131A-1109		
		F.NPT 3"	Al					5,5 kg/12,2 lb	9189A-1109		
			St					6,6 kg/14,6 lb	9181A-1109		
		M.BSP 3"	Al					5,7 kg/12,6 lb	9137A-1109		
			St					6,3 kg/13,9 lb	9138A-1109		
		M.NPT 3"	Al					5,8 kg/12,8 lb	9187A-1107		
			St					6,4 kg/14,2 lb	9188A-1109		
		W.Ø 70-90	St					5,9 kg/13,0 lb	9136A-1109		
		W.Ø 76	Al					5,7 kg/12,6 lb	9183A-1109		
			St					6,5 kg/14,4 lb	9132A-1109		
		W.Ø 89	Al					5,5 kg/12,2 lb	9133A-1109		
			St					6,6 kg/14,6 lb	9135A-1109		
	TW1 DN 80	Al	6,6 kg/14,6 lb					9134A-1109			
	4" DN 100	-	-					Flange seal -	Ball seal -	5,1 kg/11,3 lb	9140A-1109
		F.BSP 4"	Al							8,5 kg/18,8 lb	9149A-1109
			St							11,2 kg/24,8 lb	9141A-1109
		F.NPT 4"	Al							8,6 kg/19,0 lb	9199A-1109
			St							11,3 kg/25,0 lb	9191A-1109
		M.BSP 4"	Al							19,2 kg/20,3 lb	9147A-1109
			St							11,2 kg/24,8 lb	9148A-1109
		M.NPT 4"	Al							9,3 kg/20,6 lb	9197A-1109
			St							11,3 kg/25,0 lb	9198A-1109
		W.Ø 90/100	Al							8,6 kg/19,0 lb	9193A-1109
		W.Ø 90-120	St							10,3 kg/22,8 lb	9146A-1109
		W.Ø 102	St							11,2 kg/24,8 lb	9142A-1109
		W.Ø 108	Al							8,6 kg/19,0 lb	9143A-1109
		W.Ø 114	St							11,5 kg/25,4 lb	9145A-1109
	TW3 DN 100	Al	9,2 kg/20,3 lb							9144A-1109	

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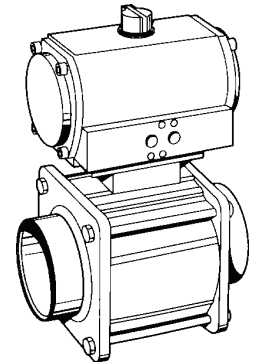
1/ Dimension Ball Valve

2/ Materials: St=Steel, SS=Stainless Steel, Rg=Gunmetal/Brass, Al=Aluminium.

3/ F=Female thread/Innengewinde/Invändig gänga.
M=Male thread/Aussengewinde/Urvändig gänga.
W=Flange for welding/Schweisflansch/Svetsfläns.

4/ Threads/Gewinde/Gångor:
BSP=ISO 228, NPT=ANSI B 1.20.3

98-01	^{1/} Inch	^{3/} Connection	^{4/} ^{2/} Matr.flange	Seal	Weight	Codeno.	Figure			
DESIGN MAY CHANGE WITHOUT NOTICE -	2" DN 50	-	-	FPM (Viton).	PTFE (Teflon).	3,8 kg/8,4 lb	9320C-1107	<p>Material/Verksstoff/Material:</p> <p>Ball/Kugel/Kula: Al</p> <p>Body/Gehäuse/Hus: Al</p> <p>Spindle/Spindel/Spindel: Rg</p> <p>Guidering/Dichtring/Plåtring: St</p>		
		F.BSP 1½"	Al			4,7 kg/10,4 lb	9322C-1107			
		F.NPT 1½"				4,8 kg/10,6 lb	9372C-1107			
		F.BSP 2"	Al			4,6 kg/10,1 lb	9329C-1107			
		F.NPT 2"	St			5,2 kg/11,5 lb	9321C-1107			
			Al			4,7 kg/10,4 lb	9379C-1107			
		St	5,2 kg/11,5 lb			9371C-1107				
			Al			4,6 kg/10,1 lb	9327C-1107			
		M.BSP 2"	St			4,9 kg/10,8 lb	9328C-1107			
			Al			4,7 kg/10,4 lb	9377C-1107			
		M.NPT 2"	St			5,0 kg/11,0 lb	9378C-1107			
			St			4,8 kg/10,6 lb	9326C-1107			
		W.Ø 50-70	Al			4,8 kg/10,6 lb	9323C-1107			
		W.Ø 57	St			5,0 kg/11,0 lb	9325C-1107			
	W.Ø 60	Al	7,0 kg/15,4 lb			9324A-1107				
	TW1 DN 50	Al								
	3" DN 80	-	-			Flange seal -	Ball seal -		6,8 kg/15,0 lb	9330A-1107
		F.BSP 3"	Al						8,2 kg/18,1 lb	9339A-1107
			St						9,3 kg/20,5 lb	9331A-1107
		F.NPT 3"	Al						8,3 kg/18,3 lb	9389A-1107
			St						9,4 kg/20,7 lb	9381A-1107
		M.BSP 3"	Al						8,5 kg/18,7 lb	9337A-1107
			St						9,1 kg/20,1 lb	9338A-1107
		M.NPT 3"	Al						8,6 kg/19,0 lb	9387A-1107
			St						9,2 kg/20,3 lb	9388A-1107
		W.Ø 70-90	St						8,7 kg/19,2 lb	9336A-1107
		W.Ø 76	Al						8,5 kg/18,7 lb	9333A-1107
		St	9,3 kg/20,5 lb						9332A-1107	
			Al						8,3 kg/18,3 lb	9333A-1107
		St	9,4 kg/20,7 lb						9335A-1107	
	Al		9,4 kg/20,7 lb						9334A-1107	
	4" DN 100	-	-						7,9 kg/17,4 lb	9340A-1107
		F.BSP 4"	Al						11,3 kg/24,9 lb	9349A-1107
			St						14,0 kg/30,9 lb	9341A-1107
		F.NPT 4"	Al						11,4 kg/25,1 lb	9399A-1107
			St						14,1 kg/31,1 lb	9391A-1107
		M.BSP 4"	Al						12,0 kg/26,5 lb	9347A-1107
			St						14,0 kg/30,9 lb	9348A-1107
		M.NPT 4"	Al						12,1 kg/26,7 lb	9397A-1107
			St						14,1 kg/31,1 lb	9398A-1107
		W.Ø 90/100	Al						11,4 kg/25,1 lb	9393A-1107
		W.Ø 90-120	St						13,1 kg/28,9 lb	9346A-1107
W.Ø 102		St	14,0 kg/30,9 lb	9342A-1107						
W.Ø 108		Al	11,4 kg/25,1 lb	9343A-1107						
W.Ø 114		St	14,1 kg/26,5 lb	9345A-1107						
TW3 DN 100	Al	12,0 kg/26,5 lb	9344A-1107							



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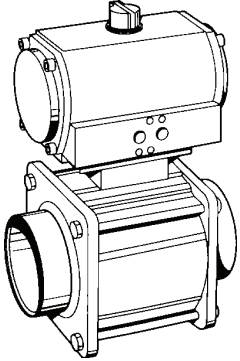
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1/ Dimension Ball Valve

2/ Materials: St=Steel, SS=Stainless Steel, Rg=Gunmetal/Brass, Al=Aluminium.

3/ F=Female thread/Innengewinde/Invändig gänga.
M=Male thread/Aussengewinde/Utvändig gänga.
W=Flange for welding/Schweissflansch/Svetsfläns.

4/ Threads/Gewinde/Gångor:
BSP=ISO 228, NPT=ANSI B 1.203

98-01	^{1/} Inch	^{3/} Connection	^{4/} ^{2/} Matr.flange	Seal	Weight	Codeno.	Figure	
DESIGN MAY CHANGE WITHOUT NOTICE -	2" DN 50	-	-	PTFE (Teflon). PTFE (Teflon). Flange seal - Ball seal -	3,8 kg/8,4 lb	9320-1109	<p>Material/Verksstoff/Material:</p> <p>Bal/Kugel/Kula: Al</p> <p>Body/Gehäuse/Hus: Al</p> <p>Spindle/Spindel/Spindel: Rg</p> <p>Guidering/Dichtring/Plåtring: St</p> 	
		F.BSP 1½"	Al		4,7 kg/10,4 lb	9322-1109		
		F.NPT 1½"			4,8 kg/10,6 lb	9372-1109		
		F.BSP 2"	Al		4,6 kg/10,1 lb	9329-1109		
		F.NPT 2"	St		5,2 kg/11,5 lb	9321-1109		
			Al		4,7 kg/10,4 lb	9379-1109		
		M.BSP 2"	St		5,2 kg/11,5 lb	9371-1109		
			Al		4,6 kg/10,1 lb	9327-1109		
		M.NPT 2"	St		4,9 kg/10,8 lb	9328-1109		
			Al		4,7 kg/10,4 lb	9377-1109		
		W.Ø 50-70	St		5,0 kg/11,0 lb	9378-1109		
		W.Ø 57	Al		4,8 kg/10,6 lb	9326-1109		
		W.Ø 60	St		4,8 kg/10,6 lb	9323-1109		
		TW1 DN 50	Al		5,0 kg/11,0 lb	9325-1109		
						7,0 kg/15,4 lb		9324A-1109
	3" DN 80	-	-			6,8 kg/15,0 lb		9330A-1109
		F.BSP 3"	Al		8,2 kg/18,1 lb	9339A-1109		
			St		9,3 kg/20,5 lb	9331A-1109		
		F.NPT 3"	Al		8,3 kg/18,3 lb	9389A-1109		
			St		9,4 kg/20,7 lb	9381A-1109		
		M.BSP 3"	Al		8,5 kg/18,7 lb	9337A-1109		
			St		9,1 kg/20,1 lb	9338A-1109		
		M.NPT 3"	Al		8,6 kg/19,0 lb	9387A-1107		
			St		9,2 kg/20,3 lb	9388A-1109		
		W.Ø 70-90	St		8,7 kg/19,2 lb	9336A-1109		
		W.Ø 76	Al		8,5 kg/18,7 lb	9383A-1109		
		W.Ø 89	St		9,3 kg/20,5 lb	9332A-1109		
			Al		8,3 kg/18,3 lb	9333A-1109		
		TW1 DN 80	St		9,4 kg/20,7 lb	9335A-1109		
	Al		9,4 kg/20,7 lb		9334A-1109			
	4" DN 100	-	-			7,9 kg/17,4 lb		9340A-1109
		F.BSP 4"	Al		11,3 kg/24,9 lb	9349A-1109		
			St		14,0 kg/30,9 lb	9341A-1109		
		F.NPT 4"	Al		11,4 kg/25,1 lb	9399A-1109		
			St		14,1 kg/31,1 lb	9391A-1109		
		M.BSP 4"	Al		12,0 kg/26,5 lb	9347A-1109		
			St		14,0 kg/30,9 lb	9348A-1109		
		M.NPT 4"	Al		12,1 kg/26,7 lb	9397A-1109		
			St		14,1 kg/31,1 lb	9398A-1109		
		W.Ø 90/100	Al		11,4 kg/25,1 lb	9393A-1109		
		W.Ø 90-120	St		13,1 kg/28,9 lb	9346A-1109		
		W.Ø 102	St		14,0 kg/30,9 lb	9342A-1109		
		W.Ø 108	Al		11,4 kg/25,1 lb	9343A-1109		
		W.Ø 114	St		14,1 kg/26,5 lb	9345A-1109		
	TW3 DN 100	Al	12,0 kg/26,5 lb		9344A-1109			

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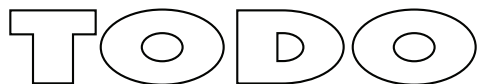
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1/ Dimension Ball Valve

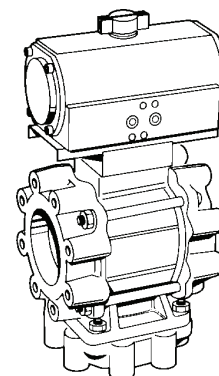
2/ Materials: St=Steel, SS=Stainless Steel, Rg=Gunmetal/Brass, Al=Aluminium.

3/ F=Female thread/Innengewinde/Invändig gänga.
M=Male thread/Aussengewinde/Utvändig gänga.
W=Flange for welding/Schweissflansch/Svetsflåns.

4/ Threads/Gewinde/Gångor:
BSP=ISO 228, NPT=ANSI B 1.20.3



98-01	1/ Inch	3/ Connection	4/ 2/ Matr.flange	Seal	Weight	Codeno.	Figure					
DESIGN MAY CHANGE WITHOUT NOTICE -	2" DN 50	-	-	FPM (Viton).	PTFE (Teflon).	2,6 kg/5,8 lb	9220-1107	<p>Material/Verksstoff/Material:</p> <p>Ball/Kugel/Kula: Al</p> <p>Body/Gehäuse/Hus: Al</p> <p>Spindle/Spindel/Spindel: Rg</p> <p>Guidering/Dichtring/Plåring: St</p>				
		F.BSP 1½"	Al			3,9 kg/8,6 lb	9222-1107					
		F.NPT 1½"	Al			4,0 kg/8,8 lb	9272-1107					
		F.BSP 2"	Al			3,7 kg/8,2 lb	9229-1107					
			St			4,5 kg/10,0 lb	9221-1107					
		F.NPT 2"	Al			3,9 kg/8,6 lb	9279-1107					
			St			4,6 kg/10,2 lb	9271-1107					
		M.BSP 2"	Al			3,7 kg/8,2 lb	9227-1107					
			St			4,2 kg/9,3 lb	9228-1107					
		M.NPT 2"	Al			3,9 kg/8,6 lb	9277-1107					
			St			4,2 kg/9,3 lb	9278-1107					
		W.Ø 50-70	St			4,0 kg/8,8 lb	9226-1107					
		W.Ø 57	Al			4,0 kg/8,8 lb	9223-1107					
		W.Ø 60	St			4,3 kg/9,5 lb	9225-1107					
	TW1 DN 50	Al	6,6 kg/14,6 lb			9224-1107						
	3" DN 80	-	-			Flange seal -	Ball seal -		4,5 kg/10,0 lb	9230-1107		
		F.BSP 3"	Al						6,5 kg/14,4 lb	9239-1107		
			St						8,2 kg/18,1 lb	9231-1107		
		F.NPT 3"	Al						6,7 kg/14,8 lb	9289-1107		
			St						8,3 kg/18,4 lb	9281-1107		
		M.BSP 3"	Al						6,9 kg/15,3 lb	9237-1107		
			St						7,9 kg/17,5 lb	9238-1107		
		M.NPT 3"	Al						7,1 kg/15,7 lb	9287-1107		
			St						8,0 kg/17,7 lb	9288-1107		
		W.Ø 70-90	St						7,2 kg/15,9 lb	9236-1107		
		W.Ø 76	Al						6,9 kg/15,3 lb	9283-1107		
			St						8,2 kg/18,1 lb	9232-1107		
		W.Ø 89	Al						6,6 kg/14,6 lb	9233-1107		
			St						8,2 kg/18,1 lb	9235-1107		
	TW1 DN 80	Al	8,4 kg/18,6 lb						9234-1107			
	4" DN 100	-	-						Ball seal -	Ball seal -	6,5 kg/14,4 lb	9240-1107
		F.BSP 4"	Al								9,2 kg/20,3 lb	9249-1107
			St								13,2 kg/29,2 lb	9241-1107
		F.NPT 4"	Al								9,0 kg/19,9 lb	9299-1107
			St								13,3 kg/29,4 lb	9291-1107
		M.BSP 4"	Al								10,2 kg/22,6 lb	9247-1107
			St								13,2 kg/29,2 lb	9248-1107
		M.NPT 4"	Al								10,4 kg/23,0 lb	9297-1107
			St								13,3 kg/29,4 lb	9298-1107
		W.Ø 90/100	Al								9,3 kg/20,6 lb	9293-1107
		W.Ø 90-120	St								11,9 kg/26,3 lb	9246-1107
		W.Ø 102	St								13,2 kg/29,2 lb	9242-1107
		W.Ø 108	Al								9,3 kg/20,6 lb	9243-1107
		W.Ø 114	St								13,7 kg/30,3 lb	9245-1107
	TW3 DN 100	Al	10,2 kg/22,6 lb								9244-1107	



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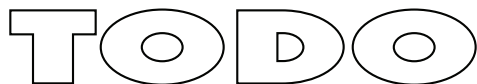
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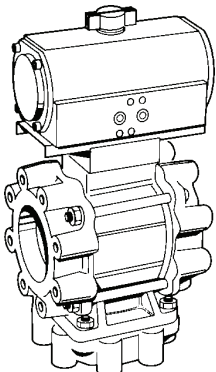
1/ Dimension Ball Valve

2/ Materials: St=Steel, SS=Stainless Steel, Rg=Gunmetal/Brass, Al=Aluminium.

3/ F=Female thread/Innengewinde/Invändig gänga.
M=Male thread/Aussengewinde/Urvändig gänga.
W=Flange for welding/Schweisflansch/Svetsflåns.

4/ Threads/Gewinde/Gångor:
BSP=ISO 228, NPT=ANSI B 1.20.3



98-01	^{1/} Inch	^{3/} Connection	^{4/} ^{2/} Matr.flange	Seal	Weight	Codeno.	Figure	
DESIGN MAY CHANGE WITHOUT NOTICE -	2" DN 50	-	-	PTFE (Teflon). PTFE (Teflon). Flange seal - Ball seal -	2,6 kg/5,8 lb	9220-1109	<p>Material/Verksstoff/Material:</p> <p>Ball/Kugel/Kula: Al</p> <p>Body/Gehäuse/Hus: Al</p> <p>Spindle/Spindel/Spindel: Rg</p> <p>Guidering/Dichtring/Plåtring: St</p> 	
		F.BSP 1½"	Al		3,9 kg/8,6 lb	9222-1109		
		F.NPT 1½"			4,0 kg/8,8 lb	9272-1109		
		F.BSP 2"	Al		3,7 kg/8,2 lb	9229-1109		
		F.NPT 2"			St	4,5 kg/10,0 lb		9221-1109
			M.BSP 2"		Al	3,9 kg/8,6 lb		9279-1109
		M.NPT 2"			St	4,6 kg/10,2 lb		9271-1109
			W.Ø 50-70		Al	3,7 kg/8,2 lb		9227-1109
		W.Ø 57			St	4,2 kg/9,3 lb		9228-1109
			W.Ø 60		Al	3,9 kg/8,6 lb		9277-1109
		TW1 DN 50			St	4,2 kg/9,3 lb		9278-1109
			3" DN 80		-	-		4,5 kg/10,0 lb
		F.BSP 3"			Al	6,5 kg/14,4 lb		9239-1109
					St	8,2 kg/18,1 lb		9231-1109
	F.NPT 3"	Al			6,7 kg/14,8 lb	9289-1109		
		St			8,3 kg/18,4 lb	9281-1109		
	M.BSP 3"	Al			6,9 kg/15,3 lb	9237-1109		
		St			7,9 kg/17,5 lb	9238-1109		
	M.NPT 3"	Al			7,1 kg/15,7 lb	9287-1109		
		St			8,0 kg/17,7 lb	9288-1109		
	W.Ø 70-90	Al			7,2 kg/15,9 lb	9236-1109		
		St			6,9 kg/15,3 lb	9283-1109		
	W.Ø 76	Al			8,2 kg/18,1 lb	9232-1109		
		St			6,6 kg/14,6 lb	9233-1109		
	W.Ø 89	Al			8,2 kg/18,1 lb	9235-1109		
		St	8,4 kg/18,6 lb		9234-1109			
	4"	-	-		6,5 kg/14,4 lb	9240-1109		
		F.BSP 4"	Al		9,2 kg/20,3 lb	9249-1109		
			St		13,2 kg/29,2 lb	9241-1109		
		F.NPT 4"	Al		9,0 kg/19,9 lb	9299-1109		
			St		13,3 kg/29,4 lb	9291-1109		
		M.BSP 4"	Al		10,2 kg/22,6 lb	9247-1109		
			St		13,2 kg/29,2 lb	9248-1109		
		M.NPT 4"	Al		10,4 kg/23,0 lb	9297-1109		
			St		13,3 kg/29,4 lb	9298-1109		
		W.Ø 90/100	Al		9,3 kg/20,6 lb	9293-1109		
			St		11,9 kg/26,3 lb	9246-1109		
		W.Ø 90-120	Al		13,2 kg/29,2 lb	9242-1109		
			St		9,3 kg/20,6 lb	9243-1109		
		W.Ø 102	Al		13,7 kg/30,3 lb	9245-1109		
	St		10,2 kg/22,6 lb		9244-1109			
	W.Ø 108	Al						
		St						
	W.Ø 114	Al						
		St						
	TW3 DN 100	Al						
		St						

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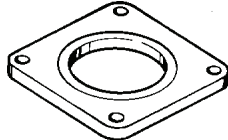
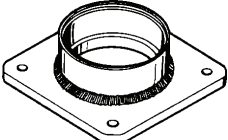

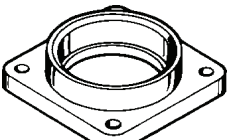
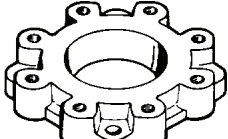
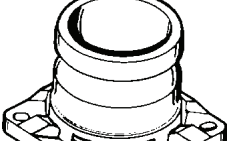
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1/ Dimension Ball Valve

2/ Materials: St=Steel, SS=Stainless Steel, Rg=Gunmetal/Brass, Al=Aluminium.

3/ F=Female thread/Innengewinde/Invändig gänga.
M=Male thread/Aussengewinde/Urvändig gänga.
W=Flange for welding/Schweisflansch/Svetsflås.

4/ Threads/Gewinde/Gångor:
BSP=ISO 228, NPT=ANSI B1.20.3

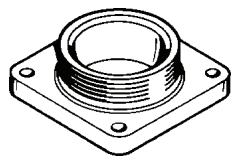
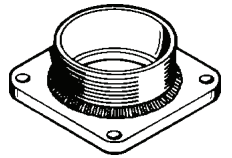
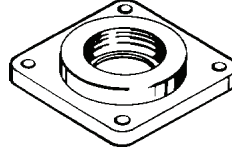
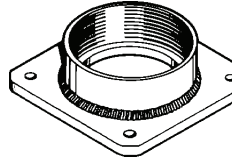
98-01	Description	1/	Inch	Size Ø mm	2/	Material	Fig.	Code no.	Figure
DESIGN MAY CHANGE WITHOUT NOTICE -	Flanges prepared for welding	2" DN 50	48	48	St	3	5257-3	1. 	
				48	SS	3	5257-4		
			50-70	50-70	St	1	5069-3		
				50-70	SS	1	5069-4		
			57	Al	4	5177A-1	2. 		
			60	60	St	3		5082-3	
				60	SS	3		5082-4	
			3" DN 80	60	St	3		5249-3	
		60		SS	3	5249-4			
		70-90		70-90	St	1	5070-3		
				70-90	SS	1	5070-4		
		76	76	Al	4	5871-1			
			76	St	2	5047-3			
			76	SS	2	5047-4			
		89	89	Al	4	5178A-1			
			89	St	3	5083-3			
			89	SS	3	5083-4			
		4" DN 100	90-120	St	1	5071-3			
			90-120	SS	1	5071-4			
			90/100	Al	4	5180-1			
102	102		St	2	5167-3				
	102		SS	2	5167-4				
108	Al	4	5179A-1	3. 					
114	114	St	3		5084-3				
	114	SS	3	5084-4					
								4. 	
								5. 	
TW-flanges DIN 28460	3" DN 80	TW1/50	Al	5	5182A-1				
		TW1/80	Al	5	5183A-1				
	4" DN 100	TW3/100	Al	5	5278-1	6. 			
	Quick coupling American type	3"	3/ SpeedLock	Al	6	5106-1	© TODO 1994		
				4"	3/ SpeedLock	Al		6	5107-1

Eftertryck av text och/eller bild förbjuder utan innehavarens skriftliga tillstånd.

1/ Dimension Ball Valve

2/ Materials: St=Steel, SS=Stainless Steel, Rg=Gunmetal/Brass, Al=Aluminium.

3/ Male part

98-01	Description	^{1/} Inch	^{3/} Thread ^{4/} ^{2/} Material	Fig	Code no.	Figure	
DESIGN MAY CHANGE WITHOUT NOTICE -	Flanges with threads	2" DN 50	M.BSP 1½"	St	2	5087-3	
			M.BSP 1½"	SS	2	5087-4	
			F.BSP 1½"	Al	3	5175-1	
			F.BSP 1½"	Rg	3	5175-2	
			F.BSP 1½"	St	4	5301-3	
			F.BSP 1½"	SS	4	5301-4	
			F.NPT 1½"	Al	3	6319-1	
			F.NPT 1½"	St	4	6318-3	
			M.BSP 2"	Al	1	5162-1	
			M.BSP 2"	Rg	1	5162-2	
			M.BSP 2"	St	2	5258-3	
			M.BSP 2"	SS	2	5258-4	
			M.NPT 2"	Al	1	6322-1	
			M.NPT 2"	St	2	6320-3	
			F.BSP 2"	Al	3	5090-1	
			F.BSP 2"	Rg	3	5090-2	
		F.BSP 2"	St	4	5157-3		
		F.BSP 2"	SS	4	5157-4		
		F.NPT 2"	Al	3	6323-1		
		F.NPT 2"	St	4	6321-3		
		M.W2"-7	Al	1	5161-1		
		M.W2"-7	Rg	1	5161-2		
		F.BSP 2½"	Al	3	5187-1		
		F.BSP 2"	Al	3	5089-1		
		F.BSP 2"	St	4	5299-3		
		F.BSP 2"	SS	4	5299-4		
		M.BSP 2½"	Al	1	5261-1		
		M.BSP 2½"	Rg	1	5261-2		
M.BSP 2½"	St	2	5260-3				
M.BSP 2½"	SS	2	5260-4				
F.BSP 2½"	Al	3	5188-1				
F.BSP 2½"	Rg	3	5188-2				
F.BSP 2½"	St	4	5095-3				
F.BSP 2½"	SS	4	5095-4				
F.NPT 2½"	Al	3	6317-1				
F.NPT 2½"	St	4	6317-3				
M.BSP 3"	Al	1	5163-1				
M.BSP 3"	Rg	1	5163-2				
M.BSP 3"	St	2	5259-3				
M.BSP 3"	SS	2	5259-4				
M.NPT 3"	Al	4	6326-1				
M.NPT 3"	St	4	6324-3				
F.BSP 3"	Al	3	5209-1				
F.BSP 3"	Rg	3	5209-2				
F.BSP 3"	St	4	5046-3				
F.BSP 3"	SS	4	5046-4				
							
							

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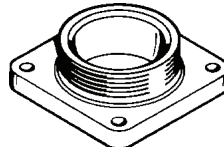
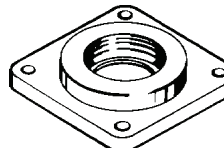
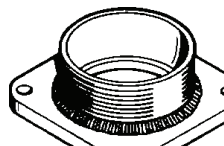
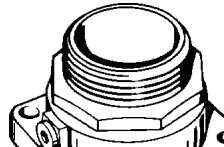
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1/ Dimension Ball Valve

2/ Materials: St=Steel, SS=Stainless Steel, Rg=Gunmetal/Brass, Al=Aluminium.

3/ F=Female thread/Innengewinde/Invändig gänga.
M=Male thread/Aussengewinde/Urvändig gänga.
W=Flange for welding/Schweissflansch/Svetsfläns.

4/ Threads/Gewinde/Gångor:
BSP=ISO 228, NPT=ANSI B 1.20.3

98-01	Description	^{1/} Inch	^{3/} Thread	^{2/} Material	Fig.	Code no.	Figure																		
DESIGN MAY CHANGE WITHOUT NOTICE -	Flanges with threads	3" DN 80	F.NPT 3"	Al	3	6327-1	 1.																		
			F.NPT 3"	St	2	6325-3																			
			M.W3 1/4"	Al	1	5086-1																			
		4" DN 100	F.BSP 3"	St	2	5297-3																			
			F.BSP 3"	SS	2	5297-4																			
			M.BSP 4"	Al	1	5198-1																			
			M.BSP 4"	St	4	5270-3																			
			M.BSP 4"	SS	4	5270-4																			
			M.NPT 4"	Al	1	6330-1																			
			M.NPT 4"	St	4	6328-3																			
			F.BSP 4"	Al	3	5212-1																			
			F.BSP 4"	Rg	3	5212-2																			
		F.BSP 4"	St	2	5173-3																				
		F.BSP 4"	SS	2	5173-4																				
	F.NPT 4"	Al	3	6331-1																					
F.NPT 4"	St	2	6329-2																						
Flange with swivel	2" DN 50	F.BSP 1 1/2"	^{2/} Al	^{5/} Vi	5	5527-1407	 3.																		
		M.BSP 2"	Al	Vi	5	5591-1407																			
		M.W2"-6	Al	Vi	5	5526-1407																			
		M.W2"-7	Al	Vi	5	5590-1407																			
								 4.																	
													 5.												

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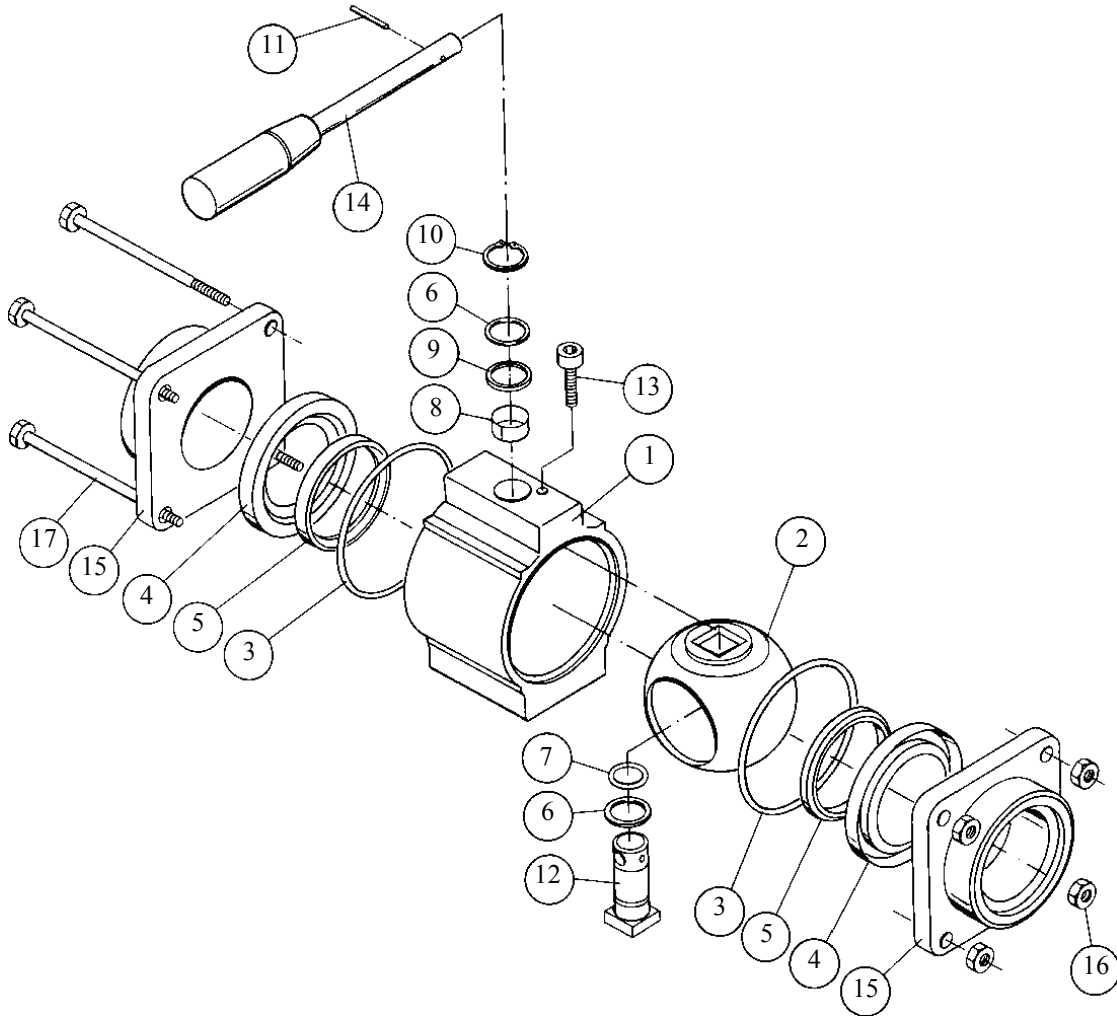
^{1/} Dimension Ball Valve

^{2/} Materials: St=Steel, SS=Stainless Steel, Rg=Gunmetal/Brass, Al=Aluminium.

^{3/} F=Female thread/Innengewinde/Invändig gänga.
M=Male thread/Aussengewinde/Utvändig gänga.
W=Flange for welding/Schweissflansch/Svetsfläns.

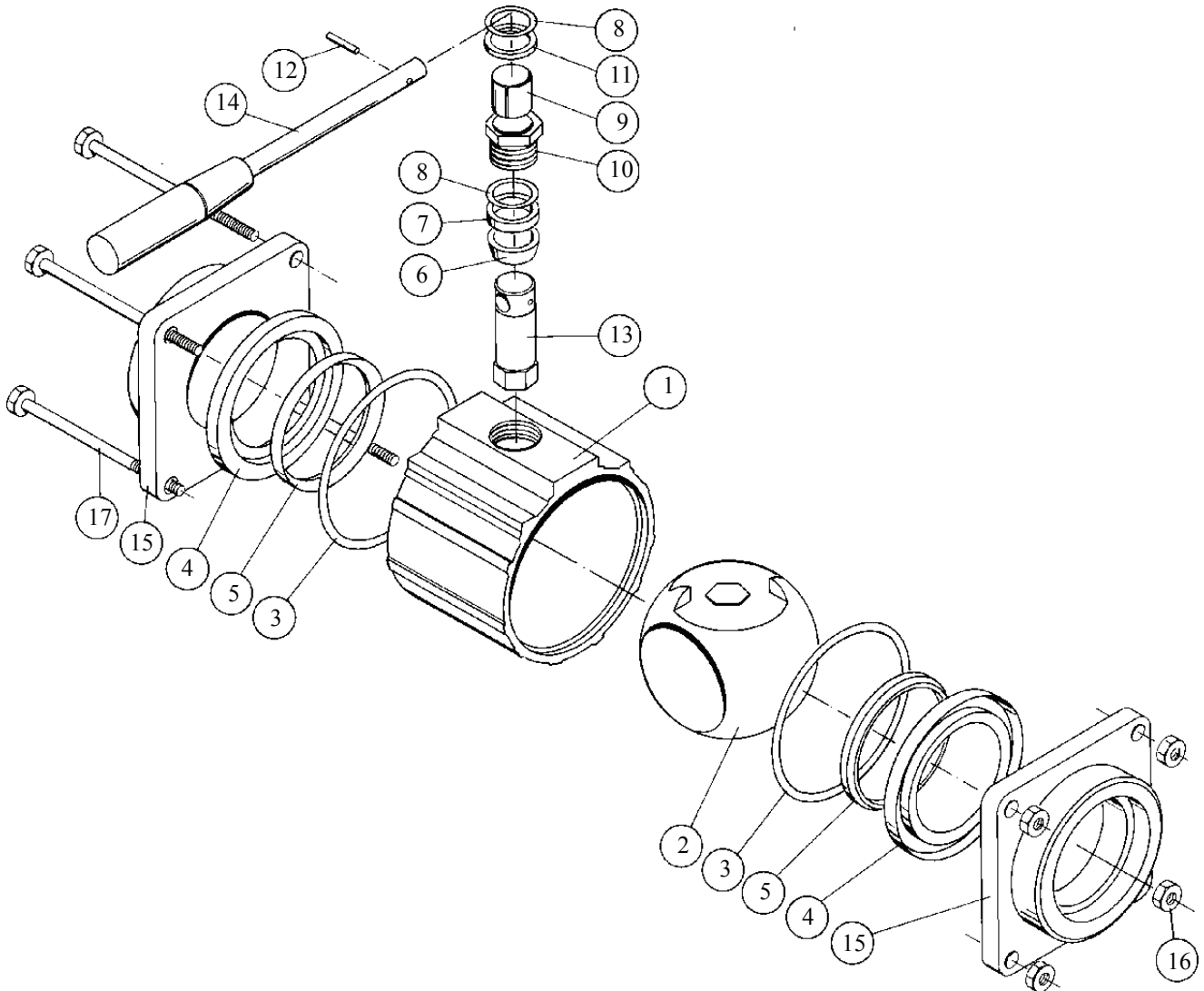
^{4/} Threads/Gewinde/Gångor:
BSP=ISO 228, NPT=ANSI B 1.20.3

^{5/} Sealing/Dichtung/Tätning:
Vi=FPM (Viton)
Te=PTFE (Teflon)



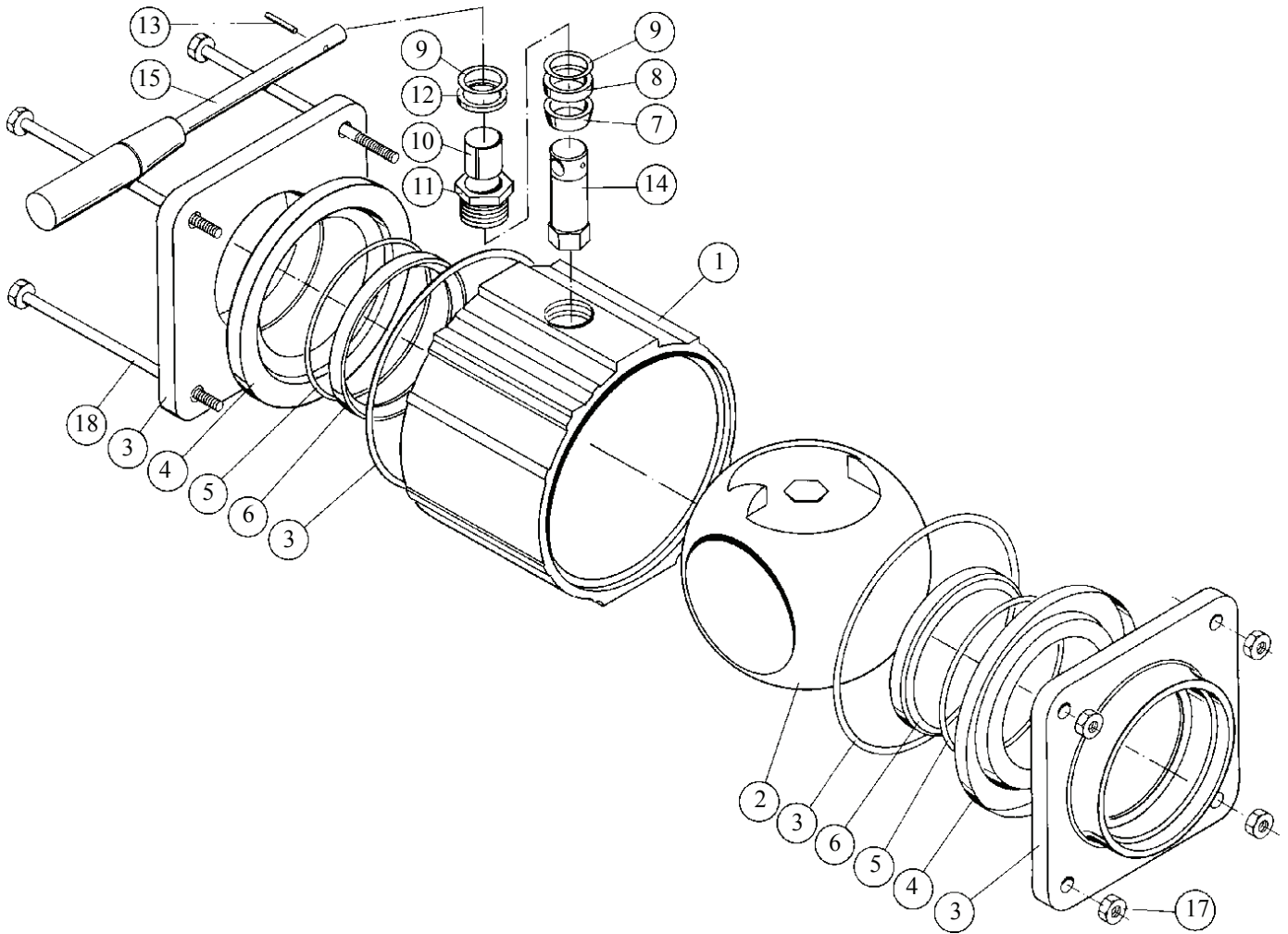
* - Available in different models. ** - Different lengths depending on flange model.

Ref.	Quantity	Part no:	Description	Material
**17	4	5027-3	Screw	Steel
16	4	5174-3	Nut	Steel
*15	2	5177-4	2" Welding flange	Aluminium
14	1	5697-3500	Hand lever complete	Steel / Nylon
13	1	5033-3	Screw	Steel
12	1	6010-2	Spindle	Brass
11	1	5985-4	Pin	Stainless steel
10	1	6023-3	Locking ring	Steel
9	1	5978-15	Flat seal	Felt
8	2	5987-05	Slide bushing	Acetal
7	1	5981-07	O-ring	FPM (Viton)
6	1	5979-4	Washer	Stainless steel
5	2	5272-09	Sealing ring	PTFE (Teflon)
4	2	5159-3	Guide ring	Steel
3	2	5171-07	O-ring	FPM (Viton)
2	1	5855-1	Valve ball	Aluminium
1	1	5849-1	Valve body	Aluminium



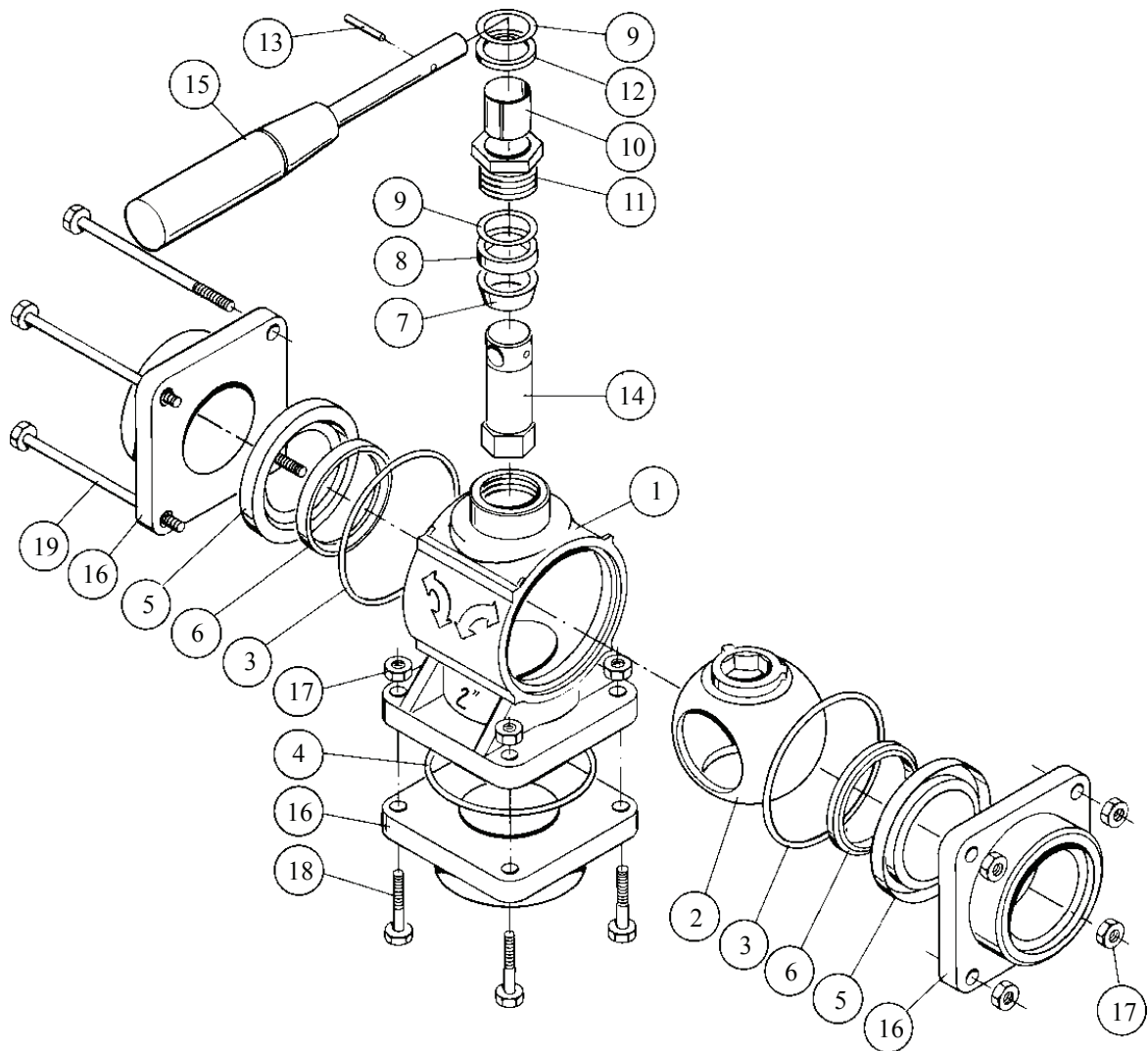
* - Available in different models. ** - Different lengths depending on flange model.

Ref.	Quantity	Part no:	Description	Material
**17	4	5024-3	Screw	Steel
16	4	5019-3	Nut	Steel
*15	2	5178-1	3" Welding flange	Aluminium
14	1	5152-3500	Hand lever complete	Steel / Nylon
13	1	5038-2	Spindle	Brass
12	1	5049-4	Pin	Stainless steel
11	1	5189-15	Flat seal	Felt
10	1	5061-3	Guide bushing	Steel
9	1	5068-09	Slide bushing	PTFE (Teflon)
8	2	5059-4	Washer	Stainless steel
7	1	5048-09	Sealing ring	PTFE (Teflon)
6	1	5045-3	Bushing	Steel
5	2	5273-09	Sealing ring	PTFE (Teflon)
4	2	5039-3	Guide ring	Steel
3	2	5041-07	O-ring	FPM (Viton)
2	1	5856A-1	Valve ball	Aluminium
1	1	5850-1	Valve body	Aluminium



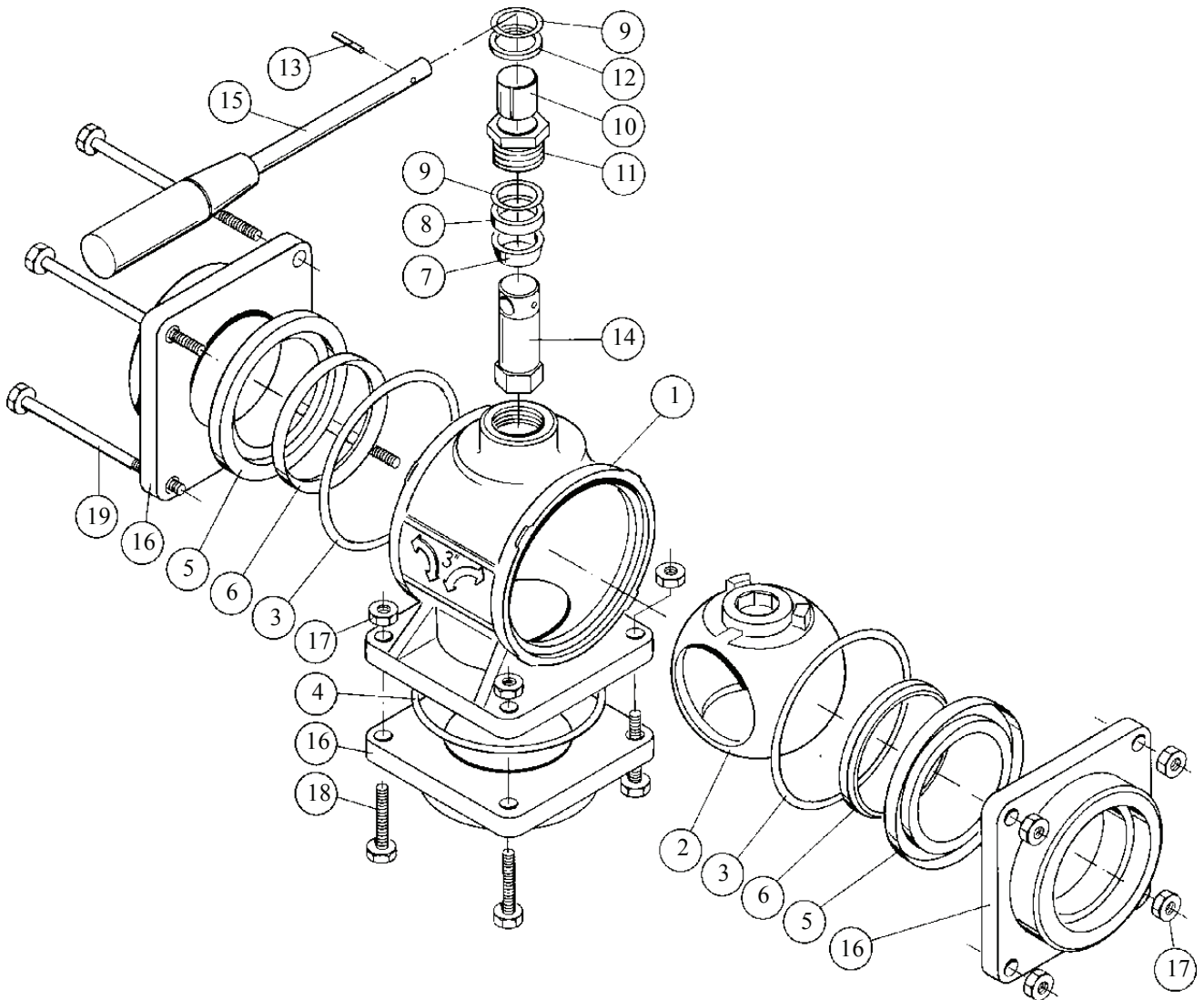
* - Available in different models. ** - Different lengths depending on flange model.

Ref.	Quantity	Part no:	Description	Material
**18	4	5034-3	Screw	Steel
17	8	5019-3	Nut	Steel
*16	3	5179A-1	4" Welding flange	Aluminium
15	1	5152-3500	Hand lever complete	Steel / Nylon
14	1	5038-2	Spindle	Brass
13	1	5049-4	Pin	Stainless steel
12	1	5189-15	Flat seal	Felt
11	1	5061-3	Guide bushing	Steel
10	1	5068-09	Slide bushing	PTFE (Teflon)
9	2	5059-4	Washer	Stainless steel
8	1	5048-09	Sealing ring	PTFE (Teflon)
7	1	5045-3	Bushing	Steel
6	2	5264A-09	Sealing ring	PTFE (Teflon)
5	2	5294-07	O-ring	FPM (Viton)
4	2	5169-3	Guide ring	Steel
3	2	5172-07	O-ring	FPM (Viton)
2	1	5857A-1	Valve ball	Aluminium
1	1	5851-1	Valve body	Aluminium



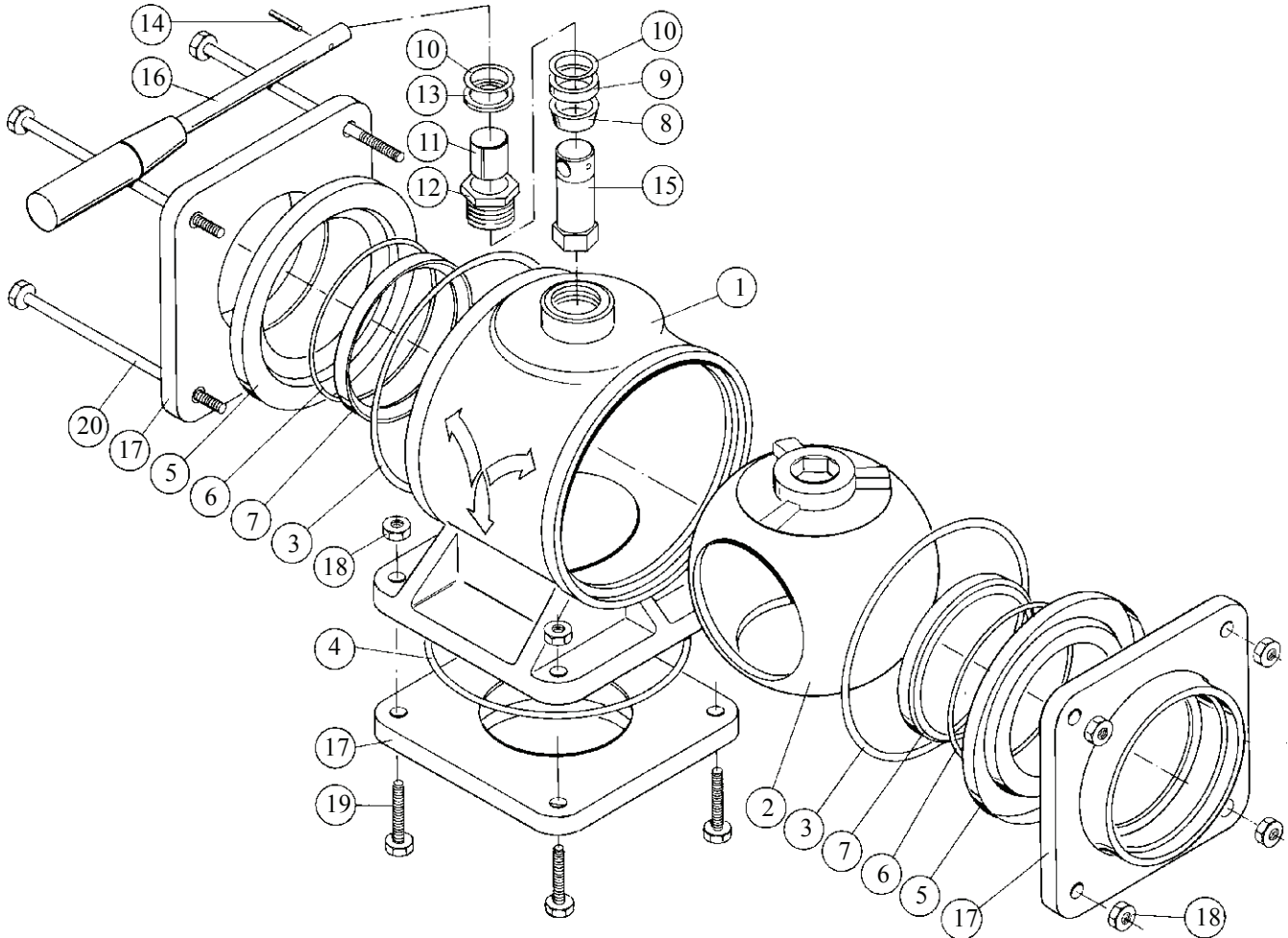
* - Available in different models. ** - Different lengths depending on flange model.

Ref.	Quantity	Part no:	Description	Material
**19	4	5014-3	Screw	Steel FZB
**18	4	5031-3	Screw	Steel FZB
17	8	5174-3	Nut	Steel FZB
*16	3	5177A-1	2" Welding flange	Aluminium
15	1	5321-3500	Hand lever complete	Steel / Nylon
14	1	5038-2	Spindle	Brass
13	1	5049-4	Pin	Stainless steel
12	1	5189-15	Flat seal	Felt
11	1	5061-3	Guide bushing	Steel
10	1	5068-09	Slide bushing	PTFE (Teflon)
9	2	5059-4	Washer	Stainless steel
8	1	5048-09	Sealing ring	PTFE (Teflon)
7	1	5045-3	Bushing	Steel
6	2	5272-09	Sealing ring	PTFE (Teflon)
5	2	5159-3	Guide ring	Steel
4	1	5171-07	O-ring	FPM (Viton)
3	2	5171-07	O-ring	FPM (Viton)
2	1	5253-1	Valve ball	Aluminium
1	1	5254-1	Valve body	Aluminium



* - Available in different models. ** - Different lengths depending on flange model.

Ref.	Quantity	Part no:	Description	Material
**19	4	5024-3	Screw	Steel FZB
**18	4	5018-3	Screw	Steel FZB
17	8	5019-3	Nut	Steel FZB
*16	3	5178A-1	3" Welding flange	Aluminium
15	1	5152-3500	Hand lever complete	Steel / Nylon
14	1	5038-2	Spindle	Brass
13	1	5049-4	Pin	Stainless steel
12	1	5189-15	Flat seal	Felt
11	1	5061-3	Guide bushing	Steel
10	1	5068-09	Slide bushing	PTFE (Teflon)
9	2	5059-4	Washer	Stainless steel
8	1	5048-09	Sealing ring	PTFE (Teflon)
7	1	5045-3	Bushing	Steel
6	2	5273-09	Sealing ring	PTFE (Teflon)
5	2	5139-3	Guide ring	Steel
4	1	5041-07	O-ring	FPM (Viton)
3	2	5041-07	O-ring	FPM (Viton)
2	1	5053-1	Valve ball	Aluminium
1	1	5054-1	Valve body	Aluminium



* - Available in different models. ** - Different lengths depending on flange model.

Ref.	Quantity	Part no:	Description	Material
**20	4	5034-3	Screw	Steel FZB
**19	4	5018-3	Screw	Steel FZB
18	8	5019-3	Nut	Steel FZB
*17	3	5179A-1	4" Welding flange	Aluminium
16	1	5152-3500	Hand lever complete	Steel / Nylon
15	1	5038-2	Spindle	Brass
14	1	5049-4	Pin	Stainless steel
13	1	5189-15	Flat seal	Felt
12	1	5061-3	Guide bushing	Steel
11	1	5068-09	Slide bushing	PTFE (Teflon)
10	2	5059-4	Washer	Stainless steel
9	1	5048-09	Sealing ring	PTFE (Teflon)
8	1	5045-3	Bushing	Steel
7	2	5264A-09	Sealing ring	PTFE (Teflon)
6	2	5294-07	O-ring	FPM (Viton)
5	2	5169-3	Guide ring	Steel
4	1	5041-07	O-ring	FPM (Viton)
3	2	5172-07	O-ring	FPM (Viton)
2	1	5268-1	Valve ball	Aluminium
1	1	5266-1	Valve body	Aluminium

Sealing material

These values must be tried individually and are subject to no obligation.
Always check with chemical compatibility chart before use.

95-01

NBR (Nitrile)	Index no: 06
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Petroleum-based hydraulic and lubricating oils.

Animal and vegetable oils.

- * Acetylene
- * Alcohols
- * Water
- * Air
- * Alkalis
- * Fuel oils

many other fluids.

Temperature: -40°C up to +100°C.

FPM (Viton)	Index no: 07
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High temperatures.

Synthetic and hydraulic fluids.

A wide range of chemicals, heavily oxidizing acids (in combination with medium temperatures).

- * Perchloroethylene
- * Trichloroethylene
- * Automotive fuels and oils
- * Aircraft fuels and oils

many other fluids.

Temperature: -30°C up to +200°C.

EPDM	Index no: 08
-------------	------------------------

Non flammable hydraulic fluids (skydrol, pydraul, lindol, cellulube 150, phosphoric esters etc).

Fire extinguisher liquids

(chlorobromomethane etc).

* Hot water and steam

* Acids

* Acetone

* Methanol, Isopropylalcohol

* MEK (Methylethylketone)

* Glycols

Temperature: -50°C up to +150°C.

PTFE (Teflon)	Index no: 09
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Teflon is resistant to the most solvents and chemicals.

Due to it's lack of elasticity, PTFE is not suitable as O-ring sealing.

Temperature: -160°C up to +230°C.

CR (Neoprene)	Index no: 10
----------------------	------------------------

Neoprene, which is a special rubber, is swelling in petrol and oil at an extent between NR (Natural rubber) and NBR (Nitril).

Resistance to heat and Ozon is good.

Temperature: -45°C up to +100°C.

PUR (Vulcolan)	Index no: 12
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Vulcolan is durable and has good elastic value.

* Propane

* Butane

* Petrol

* Mineral oil

* Water

NOT RECOMMENDED FOR ETHERS, KETONES, ALCOHOLS, GLYCOLS OR ACIDS.

Temperature: -30°C up to +80°C.

Butyl	Index no: 13
--------------	------------------------

Butyl rubber, which is a special rubber, is far more resistant to aging by heat, ozon and chemicals than normal rubber types. Butyl rubber is one of the best rubber materials for contact with hotwater and steam. It has low swelling in esters and ketones and also good resistance against acids.

* Hotwater and hot steam

* Several acids

* Soda- and potash lye

* Alcohol, ketones, esters

NOT RECOMMENDED FOR MINERAL OIL PRODUCTS.

Temperature: -55°C up to +110°C.

PFPM (Kalrez)	Index no: 14
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Superior compound for high temperatures and most chemicals.

This compound combines the chemical properties of PTFE (Teflon) with the mechanical properties of FPM (Viton).

Temperature: -40°C up to +260°C.

FMVQ (Fluorosilicone)	Index no: 17
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Low temperatures.

Petroleum-based fuel, oils and lubricants.

Silicone fluids and silicone esters.

Di-esters oils.

many other fluids.

Temperature: -60°C up to 230°C.

Perfluorelastomer	Index no: 25
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A good alternative to PFPM (Kalrez).

This group includes simriz, zalak, perfluor and chemraz.

Temperature: -30°C up to +230°C.

HNBR (Zetpol/Therban)	Index no: 26
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HNBR is a kind of normal Nitrile, but with i.e. better resistance against heat.

* Fuel oils

* Water and steam up to +150°C

* Vegetable oils and grease

NOT RECOMMENDED FOR KETONES, ESTERS, CHLORINATED HYDROCARBON COMPOUND OR CORROSIVE ACIDS.

Temperature: -30°C up to +180°C.

NBR 70 K-6	Index no: 32
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This material is very little different from usual NBR (Nitrile).

Approved for LP-gas.

Temperature: -40°C up to +110°C.

Lubricating grease for Todo-Matic® couplings

TODO 6632 BLUE

A premium quality grease for use in ball, roller, needle and plain bearings where extremely low temperatures prevail or where there may be likelihood of rapid temperature variation from warm to very cold.

FEATURES

1. Good low temperature properties.
2. Good mechanical stability.
3. Good resistance to water penetration.
4. Good corrosion resistance.
5. Good anti-wear characteristics.
6. Good low starting torque.

This grease is particularly recommended for use in machinery operating in any arctic conditions and vehicles driving in and out of cold stress etc.

TODO 6633 RED

This is a universal grease for chassis and bearings found in extreme circumstances, i.e. high temperatures.

FEATURES

1. Exceptionally good protection against acid, water, salt, dirt, dust, steam and oxidation.
2. Excellent sealing qualities.
3. Excellent anti-wear characteristics.
4. Extremely good resistance to pressure and heat.
5. Excellent corrosion resistance.

This grease is recommended for use in ball bearings, cylinder bearings, sleeve bearings, wheel bearings, conveying belts, chains, motor bearings, centrifuges, universal driving shafts, turntables. It is not flung off at high speed and gives an extra shock absorption.

TODO 6634 WHITE

This grease is a premium quality anhydrous grease for use in all antifriction and plain bearings found in food processing environments.

FEATURES

1. Good mechanical stability.
2. Good corrosion resistance.
3. Good water "spray off" properties.
4. Good impact resistance.
5. Good anti-wear characteristics.
6. Good oxidation stability.
7. Good sealing properties.

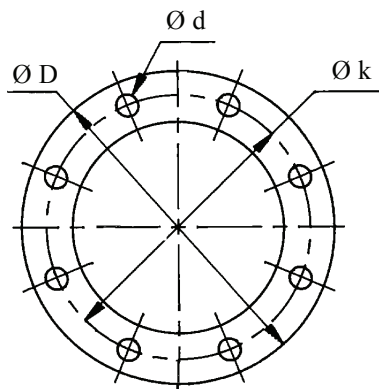
This grease is recommended for use where direct contact with food is not anticipated although incidental contact may occur. Applications may include pump bearings, conveyor bearings etc. This lubricant should not be applied to surfaces which are expected to directly contact food i.e. a slab oil.

All ingredients in the grease TODO White are FDA listed in guidance with USDA regulations.

TYPICAL PHYSICAL CHARACTERISTICS

	<u>6632 BLUE</u>	<u>6633 RED</u>	<u>6634 WHITE</u>
Appearance	Smooth grease	Tacky grease	Tacky grease
Colour	Blue	Red	White
Unworked penetration (IP50) (ASTM D247)	-	-	265-295
Unworked penetration (ASTM D 217)	265-295	-	-
Worked penetration (IP50)	-	-	265-295
Worked penetration (ASTM D217)	265-295	-	-
Penetration 60 stroke (ASTM D217)	-	280	-
Penetration 10.000 stroke (ASTM D217)	-	295	-
NLGI Classification	2	2	2
Dropping point (IP132) (ASTM D566)	180°C	-	260°C
Dropping point (ASTM D2265)	-	288	-
Timken OK load LMS (ASTM D2509)	-	50	-
Operating temperature range	-45°C to +80°C	-30°C to +160°C	-10°C to +150°C
Viscosity	40°C cSt ADTM D-445	137	-
	100°C cSt ASTM D-445	12,3	-
	100°F S.U.S. ASTM D-2161	725	-
	210°F S.U.S. ASTM D-2161	70	-
Low temperature torque (IP 186)	starting at -40°C	363 g/cm	-
	running at -40°C	310 g/cm	-
Free acidity (as Oleic PT37)	-	-	NIL
Oil separation (IP121)	-	-	NIL
Corrosion resistance	-	-	3%
Water resistance	-	Excellent	-
Acid resistance	-	Excellent	-
Inflammability (ASTM D92)	-	Excellent	-
Copper corrosion (IP112)	-	260	-
Aluminium corrosion (Mod IP112)	Negative	-	Negative
Mild steel corrosion (Mod IP112)	Negative	-	Negative
Water washout (ASTM D1264)	Negative	-	Negative
	at 38°C	-	2%
	at 79°C	-	4%
Water resistance (DIN 51807)	-	-	Fully resistant
Dynamic corrosion resistance (Emcor)	-	-	0,0
4 Ball (IP239) Weld load	-	-	174 kgs
	Mean Hertz load	-	35
Water spray ff (ASTM D4049)	-	-	<10%
Fire resistance classification according to GMS.	-	Yes	-

FLANGE MEASUREMENT



Number of holes.
n =

DIN 2501

TW (DIN 28459)

PN 6

PN 10/16

DN	D	k	n	d	D	k	n	d	D	k	n	d	INCH
19	-	-	-	-	90	65	4	11	105	75	4	14	¾"
25	-	-	-	-	100	75	4	11	115	85	4	14	1"
32	-	-	-	-	120	90	4	14	140	100	4	18	1¼"
40	-	-	-	-	130	100	4	14	150	110	4	18	1½"
50	154	130	8	11	140	110	4	14	165	125	4	18	2"
65	154	130	8	11	160	130	4	14	185	145	4	18	2½"
80	154	130	8	11	190	150	4	18	200	160	8	18	3"
100	174	150	8	14	210	170	4	18	220	180	8	18	4"
125	204	176	8	14	240	200	8	18	250	210	8	18	5"
150	240	210	12	14	265	225	8	18	285	240	8	22	6"
200	-	-	-	-	320	280	8	18	340	295	*	22	8"

*/ PN 10 n=8
PN 16 n=12

ANSI/ASA B16.5

150 psi

300 psi

T.T.M.A.

DN	D	k	n	d	D	k	n	d	D	k	n	d	INCH
19	98	70	4	16	117	82	4	19	-	-	-	-	¾"
25	108	79	4	16	124	89	4	19	-	-	-	-	1"
32	117	89	4	16	133	98	4	19	-	-	-	-	1¼"
40	127	98	4	16	156	114	4	22	-	-	-	-	1½"
50	152	121	4	19	165	127	8	19	114	95	6	11	2"
65	178	140	4	19	190	149	8	22	-	-	-	-	2½"
80	190	152	4	19	209	168	8	22	143	124	8	11	3"
100	229	190	8	19	254	200	8	22	168	149	8	11	4"
125	254	216	8	22	279	235	8	22	197	178	12	11	5"
150	279	241	8	22	317	270	12	22	229	206	12	11	6"
200	343	298	8	22	381	330	12	25	276	257	12	11	8"

Commonly used thread measurement - Gebräuchliche Gewindemasse - Vanliga gängmätt

External Thread Aussengewinde Utvärd. Gänga AG mm: Form	Pitch Steigung Stigning p mm	Internal thread Innengewinde Inv. Gänga IG mm*: Form	Thread Type+Size Gewindeart+Grösse Gängtyp+Storlek G	Standard Norm Standard		
18,9	1	1,6	17,5	2	3/4" - 16 UNF	CSA B 1
20,6	3	1,8	18,3	4	1/2" NPT	ANSI B 2.1
20,9	1	1,8	18,8	2	R 1/2" BSP	ISO 228 - G 1/2
21,8	1	1,8	19,7	2	W21,8x1/14" links	DIN 477
22,9	1	1,8	20,8	2	R 5/8" BSP	ISO 228 - G 5/8
25,9	3	1,8	24,2	2	3/4" BSPT	DIN 2999 / BS 21
26	3	1,8	23,6	4	3/4" NPT	ANSI B 2.1
26,4	1	1,8	24,2	2	R 3/4" BSP	ISO 228 - G 3/4
30	1	3,5	26,2	2	M30 x 1,5	DIN 13
32,5	3	2,2	29,7	4	1" NPT	ANSI B 2.1
32,7	3	2,3	30,4	2	1" BSPT	DIN 2999 / BS 21
33,2	1	2,3	30,4	2	R 1" BSP	ISO 228 - G 1
41,2	3	2,3	39,1	2	1 1/4" BSPT	DIN 2999 / BS 21
41,2	3	2,2	38,4	4	1 1/4" NPT	ANSI B 2.1
41,9	1	2,3	39,1	2	R 1 1/4" BSP	ISO 228 - G 1 1/4
44	5	6	40,2	6	Rd 44 x 1/6"	DIN 405
44,4	7	6,4	38,2	8	ACME 1 3/4" - 4	ASA B 1.5
45	1	4,5	40,2	2	M45 x 1,5	DIN 13
47,1	3	2,3	45	2	1 1/2" BSPT	DIN 2999 / BS 21
47,2	3	2,2	44,5	4	1 1/2" NPT	ANSI B 2.1
47,8	1	2,3	45	2	R 1 1/2" BSP	ISO 228 - G 1 1/2
52	5	4,2	48,2	6	Rd 52 x 1/6"	DIN 405
53,5	1	2,3	51	2	R 1 3/4" BSP	ISO 228 - G 1 3/4
57	7	8,5	48,7	8	ACME 2 1/4"	ASA B 1.5
58	5	4,2	54,2	6	Rd 58 x 1/6"	DIN 405
58,8	3	2,3	56,8	2	2" BSPT	DIN 2999 / BS 21
59,2	3	2,2	56,6	4	2" NPT	ANSI B 2.1
59,5	1	2,3	56,8	2	R 2" BSP	ISO 228 - G 2
61	1	4,2	56,5	2	W 2" - 6 Heating oil	Danish standard
62	1	3,6	57,5	2	W 2" - 7 Heating oil	Swedish standard
59,7	1	2,2	57,6	2	2" NPSH / NPSM	ANSI B 2.1
65	5	4,2	61,2	6	Rd 65 x 1/6"	DIN 405
65,7	1	2,3	63	2	R 2 1/4" BSP	ISO 228 - G 2 1/4
71,4	3	3,2	67,6	4	2 1/2" NPT	ANSI B 2.1
72,1	1	3,2	69	2	2 1/2" NPSH / NPSM	ANSI B 2.1
72,8	1	4,2	68,7	2	"Haltermann"	
74,2	3	2,3	72,4	2	2 1/2" BSPT	DIN 2999 / BS 21
75	1	2,3	72,4	2	R 2 1/2" BSP	ISO 228 - G 2 1/2
76	1	2,3	73,8	2	SK 4	Shell NL
78	5	4,2	74,2	6	Rd 78 x 1/6"	DIN 405
81,5	1	2,3	78,7	2	R 2 3/4" BSP	ISO 228 - G 2 3/4
81,9	1	4,2	77	2	W82 x 1/6"	VG 85 280
82,5	1	7,8	72,5	2	W 3 1/4" Railtanker	Swedish standard
82,5	7	12,7	78,4	8	ACME 3 1/4"	ASA B 1.5
84,5	1	3,2	81,5	2	85 x 1/8"	Esso
86,7	3	2,3	85	2	3" BSPT	DIN 2999 / BS 21
87,2	3	3,2	83,5	4	3" NPT	ANSI B 2.1
88	1	2,3	85	2	R 3" BSP	ISO 228 - G 3
88	1	3,2	84,9	2	3" NPSH / NPSM	ANSI B 2.1
91	1	4,2	86,7	2	W 91 - 6 Crude oil	Swedish standard
95	5	4,2	91,2	6	Rd 95 x 1/6"	DIN 405
100	5	4,2	96,2	6	Rd 100 x 1/6"	DIN 405
100,2	1	2,3	97,5	2	R 3 1/2" BSP	ISO 228 - G 3 1/2
107	5	8	100	6	Filet rond 80	NF E 29-579
110	5	6,4	104,3	6	Rd 110 x 1/4"	DIN 405
111,6	3	2,3	110,1	2	4" BSPT	DIN 2999 / BS 21
112,4	3	3,2	108,8	4	4" NPT	ANSI B 2.1
113	1	2,3	110,1	2	R 4" BSP	ISO 228 - G 4
113,4	1	3,2	110,2	2	4" NPSH / NPSM	ANSI B 2.1
114,3	1	8,8	103	2	4 1/2"	DIN 11
123,8	7	9,2	117,8	8	W 125 Forecourt thread	Swedish standard
130	5	6,4	124,3	2	Rd 130 x 1/4"	DIN 405
131	5	10	122	6	Filet rond 100	NF E 29-579
133,8	7	9,2	127,8	8	W 135 Leadless petrol	Swedish standard
138,4	1	3,2	135,5	2	R 5" BSP	ISO 228 - G 5
139,7	1	9,7	127,5	2	5 1/2"	DIN 11
163,8	1	2,3	160,9	2	R 6" BSP	DIN 228 - G 6
168,9	3	3,2	162,5	4	6" NPT	ANSI B 2.1

FORM

