

**FEATURES**

Body	Forged Steel, Angle Type
Construction	Integral Bonnet (Bonnetless) - Floating Backseat
Design	ASME B16.34 - DIN 3840 - EN 12516
Pressure Testing	ASME B16.34 - API 598 - ISO 5208 - MSS SP-61 - DIN 3230 - EN 12266
End Connections	Socket-welding - Buttwelding
Operation	Handwheel - Electric or Pneumatic Actuator
Options	Fixed Backseat
Accessories	Limit Switches - Locking Device - Live Loaded Gland
Body	SA105N - SA182-F22 - SA182-F91 (others on request)
EN-materials	1.0460 - 10CrMo9.10 - 1.4903

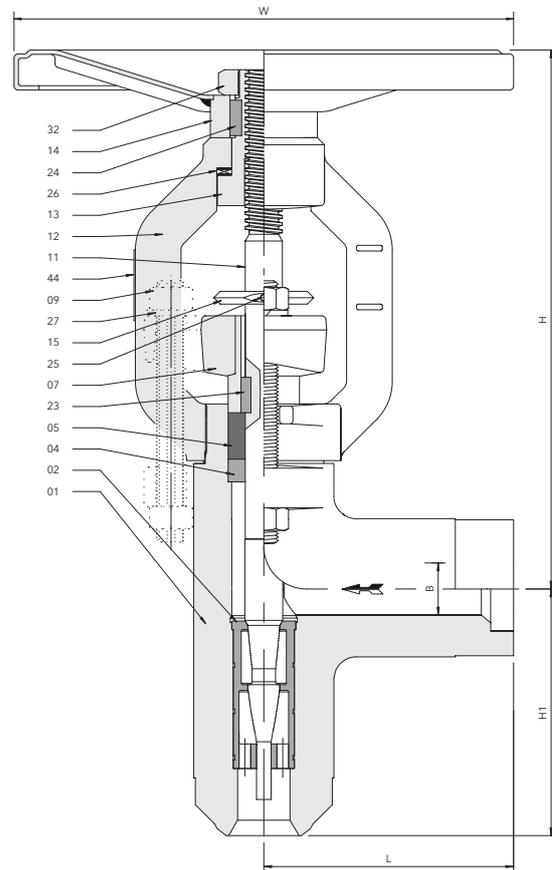
ASME CLASS:  
**900 - 2500**

API CLASS:  
**6.000 PSI**

EN CLASS:  
**PN 160 - PN 640**

**MATERIALS**

01. Body	Various (see above)
02. 3-Stage Seat	1.4923 / Stellite
04. Backseat	AISI 304
05. Stem Packing	Graphite
07. Gland / Flange	AISI 304 / Carbon Steel
09. Gland Bolt / Nut	A193-B7 / A194-2H
11. Stem / Disc	1.4923 / Hardened
12. Yoke	Carbon Steel
13. Yoke Sleeve	Aluminium-Bronze
14. Handwheel	Carbon Steel
15. Position Indicator	17 CR
23. Parallel Key	Stainless Steel
24. Parallel Key	Stainless Steel
25. Set Screw	Steel Zinc Plated
26. Bearing	-
27. Springwasher	Steel Zinc Plated
32. Thin Nut	Steel Zinc Plated
44. Nameplate	Aluminium

**MAIN DIMENSIONS IN MM (INCH)**

NOM. SIZE	FLOW-AREA	B	L	H	H1	W	WEIGHT KG
25 (3/4")	132 mm <sup>2</sup>	20 (0.79)	175 (6.89)	379 (14.9)	175 (6.89)	350 (13.8)	36.6 (80.7 LB)
32 (1-1/4")	132 mm <sup>2</sup>	25 (0.98)	175 (6.89)	379 (14.9)	175 (6.89)	350 (13.8)	36.2 (79.8 LB)
40 (1-1/2")	405 mm <sup>2</sup>	30 (1.18)	175 (6.89)	379 (14.9)	175 (6.89)	350 (13.8)	34.2 (75.4 LB)
50 (2")	405 mm <sup>2</sup>	36 (1.42)	175 (6.89)	379 (14.9)	175 (6.89)	350 (13.8)	33.8 (74.5 LB)

**FEATURES**

Body	Forged Steel, Angle Type
Construction	Integral Bonnet (Bonnetless) - Floating Backseat
Design	ASME B16.34 - BS-EN 15761 - DIN 3840 - EN 12516
Pressure Testing	ASME B16.34 - API 598 - ISO 5208 - MSS SP-61 - DIN 3230 - EN 12266
End Connections	Socket-welding - Buttwelding - Clamp Connectors - Flanged
Operation	Handwheel - Electric or Pneumatic Actuator
Options	Fixed Backseat - Standard Plug or Throttle Type Disc and/or Tandem Blow Down
Accessories	Limit Switches - Locking Device - Live Loaded Gland
Body	SA105N - SA182-F12 - SA182-F22 - SA182-F91 (others on request)
EN-materials	1.0460 - 13CrMo4.5 - 10CrMo9.10 - 1.4903
Trim	17 CR (1.4122) / Stellite - F316 (1.4401) / Stellite

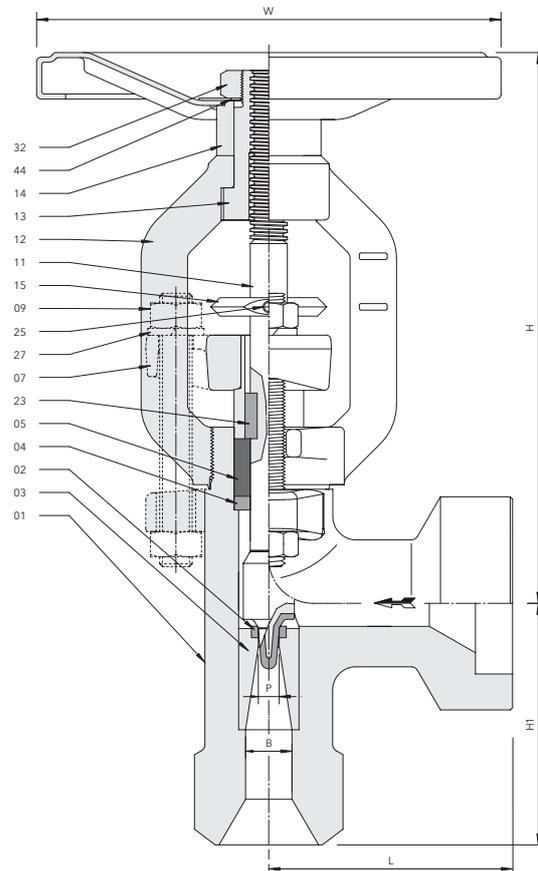
ASME CLASS:  
**900 - 2500**

API CLASS:  
**6.000 PSI**

EN CLASS:  
**PN 160 - PN 640**

**MATERIALS**

01. Body	Various (see above)
02. Seat	Stellite
03. Venturi	A182-F316
04. Backseat	AISI 304
05. Stem Packing	Graphite
07. Gland / Flange	AISI 304 / Carbon Steel
09. Gland Bolt / Nut	A193-B7 / A194-2H
10. Stem / Disc	17 CR / Stellite (see above)
12. Yoke	Carbon Steel
13. Yoke Sleeve	Aluminium-Bronze
14. Handwheel	Carbon Steel
15. Position Indicator	17 CR
23. Parallel Key	Stainless Steel
25. Set Screw	Steel Zinc Plated
27. Springwasher	Steel Zinc Plated
32. Thin Nut	Steel Zinc Plated
44. Nameplate	Aluminium

**MAIN DIMENSIONS IN MM (INCH)**

NOM. SIZE	SEATBORE-A	B	L	H	H1	W	WEIGHT KG
20 (3/4")	3-16 (0.12 - 0.63)	16 (0.63)	105 (4.13)	239 (9.4)	105 (4.1)	200 (7.9)	8.2 (17.9 LB)
25 (1")	3-18 (0.12 - 0.71)	20 (0.79)	105 (4.13)	239 (9.4)	105 (4.1)	200 (7.9)	8.1 (17.6 LB)
32 (1-1/4")	3-18 (0.12 - 0.71)	20 (0.79)	105 (4.13)	239 (9.4)	105 (4.1)	200 (7.9)	10.4 (22.7 LB)
32 (1-1/4")	19-28 (0.75 - 1.10)	28 (1.10)	175 (6.89)	379 (14.9)	175 (6.9)	350 (13.8)	35.1 (77.4 LB)
40 (1-1/2")	3-18 (0.12 - 0.71)	20 (0.79)	105 (4.13)	239 (9.4)	105 (4.1)	200 (7.9)	10.4 (22.7 LB)
40 (1-1/2")	19-36 (0.75 - 1.42)	36 (1.42)	175 (6.89)	379 (14.9)	175 (6.9)	350 (13.8)	33.9 (74.7 LB)
50 (2")	3-18 (0.12 - 0.71)	20 (0.79)	105 (4.13)	239 (9.4)	105 (4.1)	200 (7.9)	10.4 (22.8 LB)
50 (2")	19-36 (0.75 - 1.42)	36 (1.42)	175 (6.89)	379 (14.9)	175 (6.9)	350 (13.8)	33.9 (74.7 LB)

**FEATURES**

Body	Forged Steel, Angle Type
Construction	Integral Bonnet (Bonnetless) - Floating Backseat
Design	ASME B16.34 - BS-EN 15761 - DIN 3840 - EN 12516
Pressure Testing	ASME B16.34 - API 598 - ISO 5208 - MSS SP-61 - DIN 3230 - EN 12266
End Connections	Socket-welding - Buttwelding - Clamp Connectors - Flanged
Operation	Handwheel - Electric or Pneumatic Actuator
Options	Fixed Backseat - Standard Plug or Throttle Type Disc and/or Tandem Blow Down
Accessories	Limit Switches - Locking Device - Live Loaded Gland
Body	SA182-F316(L) - SA350-LF2 - SA182-F92 (others on request)
EN-materials	1.4404 - 1.4901 - 16Mo3
Trim	17 CR (1.4122) / Stellite - F316 (1.4401) / Stellite

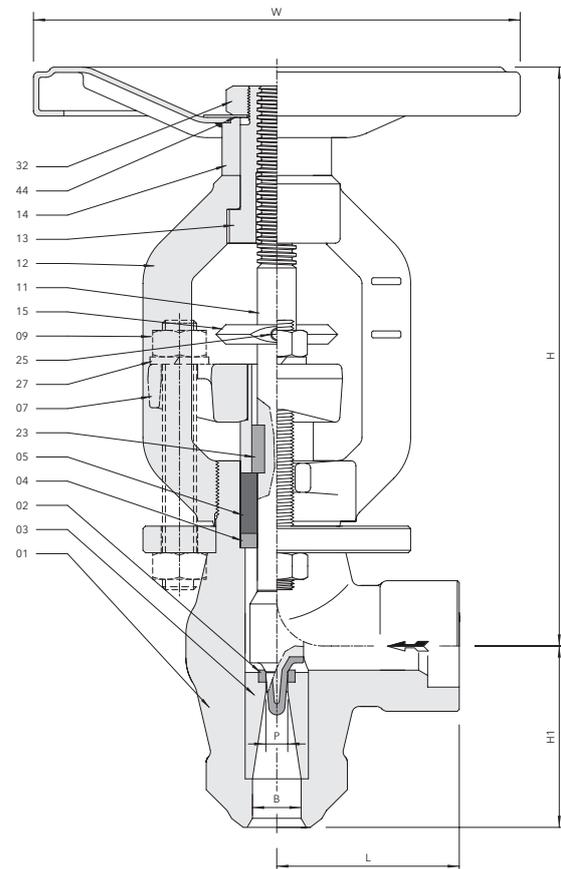
ASME CLASS:  
**900 - 2500**

API CLASS:  
**6.000 PSI**

EN CLASS:  
**PN 160 - PN 640**

**MATERIALS**

01. Body	Various (see above)
02. Seat	Stellite
03. Venturi	A182-F316
04. Backseat	AISI 304
05. Stem Packing	Graphite
07. Gland / Flange	AISI 304 / Carbon Steel
09. Gland Bolt / Nut	A193-B7 / A194-2H
10. Stem / Disc	17 CR / Stellite (see above)
12. Yoke	Carbon Steel
13. Yoke Sleeve	Aluminium-Bronze
14. Handwheel	Carbon Steel
15. Position Indicator	17 CR
23. Parallel Key	Stainless Steel
25. Set Screw	Steel Zinc Plated
27. Springwasher	Steel Zinc Plated
32. Thin Nut	Steel Zinc Plated
44. Nameplate	Aluminium

**MAIN DIMENSIONS IN MM (INCH)**

NOM. SIZE	SEATBORE-A	B	L	H	H1	W	WEIGHT KG
20 (3/4")	3-16 (0.12 - 0.63)	16 (0.63)	75 (2.95)	239 (9.4)	75 (2.95)	200 (7.9)	7.7 (17.0 LB)
25 (1")	3-18 (0.12 - 0.71)	20 (0.79)	75 (2.95)	239 (9.4)	75 (2.95)	200 (7.9)	7.5 (16.5 LB)
32 (1-1/4")	3-18 (0.12 - 0.71)	20 (0.79)	75 (2.95)	239 (9.4)	75 (2.95)	200 (7.9)	7.5 (16.5 LB)
40 (1-1/2")	3-18 (0.12 - 0.71)	20 (0.79)	75 (2.95)	239 (9.4)	75 (2.95)	200 (7.9)	7.5 (16.5 LB)

**FEATURES**

Body	Forged Steel, Angle Type
Construction	Integral Bonnet (Bonnetless) - Floating Backseat - Bayonet Body/Yoke-Connection
Design	ASME B16.34 - BS-EN-ISO 15761 - EN 12516
Pressure Testing	ASME B16.34 - API 598 - ISO 5208 - MSS SP-61 - DIN 3230 - EN 12266
End Connections	Socket-welding - Buttwelding - Threaded - Clamp Connectors - Flanged
Operation	Handwheel - Gearbox - Electric or Pneumatic Actuator
Options	Fixed Backseat
Accessories	Limit Switches - Locking Device - Live Loaded Gland
Body	SA105N - SA182-F12 - SA182-F22 - SA182-F91 (others on request)
EN-materials	1.0460 - 13CrMo4.5 - 11CrMo9.10 - 1.4903
Trim	17 CR (1.4122) / Stellite - F316 (1.4401) / Stellite

ASME CLASS:  
**1500 - 2500**

API CLASS:  
**6.000 PSI**

EN CLASS:  
**PN 160 - PN 400**

**MATERIALS**

01. Body	Various (see above)
02. Seat	Stellite
03. Venturi	A182-F316
04. Backseat	AISI 304
05. Stem Packing	Graphite
07. Gland Flange	Carbon Steel
08. Gland	AISI 304
09. Gland Bolt / Nut	A193-B7 / A194-2H
11. Stem / Disc	17 CR / Stellite (see above)
12. Yoke	Carbon Steel
13. Yoke Sleeve	Aluminium-Bronze
14. Handwheel	Carbon Steel
15. Guiding Bush	AISI 304
22. Yoke Cap	Carbon Steel
24. Guide Pin	17 CR
27. Springwasher	Steel Zinc Plated
32. Thin Nut	Steel Zinc Plated
35. Cross Key	13 CR
44. Nameplate	Stainless Steel
46. Yoke Cap Bolt	Steel Zinc Plated

**MAIN DIMENSIONS IN MM (INCH)**

NOM. SIZE	P	B	L	H	H1	W	WEIGHT KG
32 (1-1/4")	28 (1.10)	28 (1.10)	175 (6.89)	377 (14.84)	175 (6.89)	350 (13.8)	36.3 (80.0 LB)
40 (1-1/2")	28 (1.10)	28 (1.10)	175 (6.89)	377 (14.84)	175 (6.89)	350 (13.8)	36.3 (80.0 LB)
50 (2")	36 (1.42)	36 (1.42)	175 (6.89)	377 (14.84)	175 (6.89)	350 (13.8)	35.5 (78.3 LB)
65 (2-1/2")	36 (1.42)	36 (1.42)	175 (6.89)	377 (14.84)	175 (6.89)	350 (13.8)	35.5 (78.3 LB)

**FEATURES**

Body	Forged Steel, Angle Type
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Design	ASME B16.34 - BS-EN-ISO 15761 - EN 12516
Pressure Testing	ASME B16.34 - API 598 - ISO 5208 - MSS SP-61 - DIN 3230 - EN 12266
End Connections	Socket-welding - Buttwelding - Threaded - Clamp Connectors - Flanged
Operation	Handwheel - Gearbox - Electric or Pneumatic Actuator
Options	Fixed Backseat
Accessories	Limit Switches - Locking Device - Live Loaded Gland
Body	SA105N - SA182-F12 - SA182-F22 - SA182-F91 (others on request)
EN-materials	1.0460 - 13CrMo4.5 - 11CrMo9.10 - 1.4903
Trim	17 CR (1.4122) / Stellite - F316 (1.4401) / Stellite

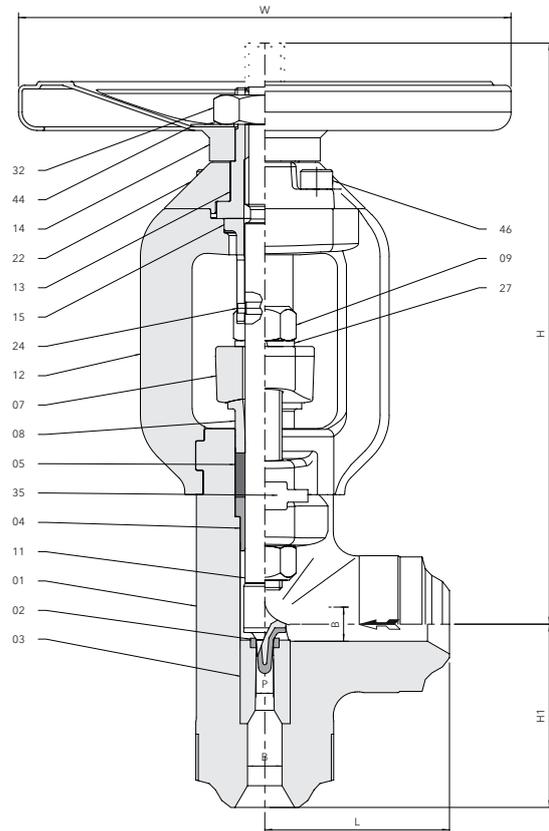
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**1500 - 2500**

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EN CLASS:  
**PN 160 - PN 400**

**MATERIALS**

01. Body	Various (see above)
02. Seat	Stellite
03. Venturi	A182-F316
04. Backseat	AISI 304
05. Stem Packing	Graphite
07. Gland Flange	Carbon Steel
08. Gland	AISI 304
09. Gland Bolt / Nut	A193-B7 / A194-2H
11. Stem / Disc	17 CR / Stellite (see above)
12. Yoke	Carbon Steel
13. Yoke Sleeve	Aluminium-Bronze
14. Handwheel	Carbon Steel
15. Guiding Bush	AISI 304
22. Yoke Cap	Carbon Steel
24. Guide Pin	17 CR
27. Springwasher	Steel Zinc Plated
32. Thin Nut	Steel Zinc Plated
35. Cross Key	13 CR
44. Nameplate	Stainless Steel
46. Yoke Cap Bolt	Steel Zinc Plated

**MAIN DIMENSIONS IN MM (INCH)**

NOM. SIZE	P	B	L	H	H1	W	WEIGHT KG
10 (3/8")	18 (0.71)	11 (0.43)	75 (2.95)	238 (9.4)	75 (2.95)	200 (7.9)	7.5 (16.5 LB)
15 (1/2")	18 (0.71)	11 (0.43)	75 (2.95)	238 (9.4)	75 (2.95)	200 (7.9)	7.5 (16.5 LB)
20 (3/4")	18 (0.71)	14 (0.55)	75 (2.95)	238 (9.4)	75 (2.95)	200 (7.9)	7.5 (16.5 LB)
25 (1")	18 (0.71)	18 (0.71)	75 (2.95)	238 (9.4)	75 (2.95)	200 (7.9)	7.4 (16.3 LB)

**FEATURES**

Body	Forged Steel, Angle Type
Construction	Integral Bonnet (Bonnetless) - Floating Backseat - Bayonet Body/Yoke-Connection
Design	ASME B16.34 - BS-EN-ISO 15761 - EN 12516
Pressure Testing	ASME B16.34 - API 598 - ISO 5208 - MSS SP-61 - DIN 3230 - EN 12266
End Connections	Socket-welding - Buttwelding - Threaded - Clamp Connectors - Flanged
Operation	Handwheel - Gearbox - Electric or Pneumatic Actuator
Options	Fixed Backseat
Accessories	Limit Switches - Locking Device - Live Loaded Gland
Body	SA105N - SA182-F12 - SA182-F22 - SA182-F91 (others on request)
EN-materials	1.0460 - 13CrMo4.5 - 11CrMo9.10 - 1.4903
Trim	17 CR (1.4122) / Stellite - F316 (1.4401) / Stellite

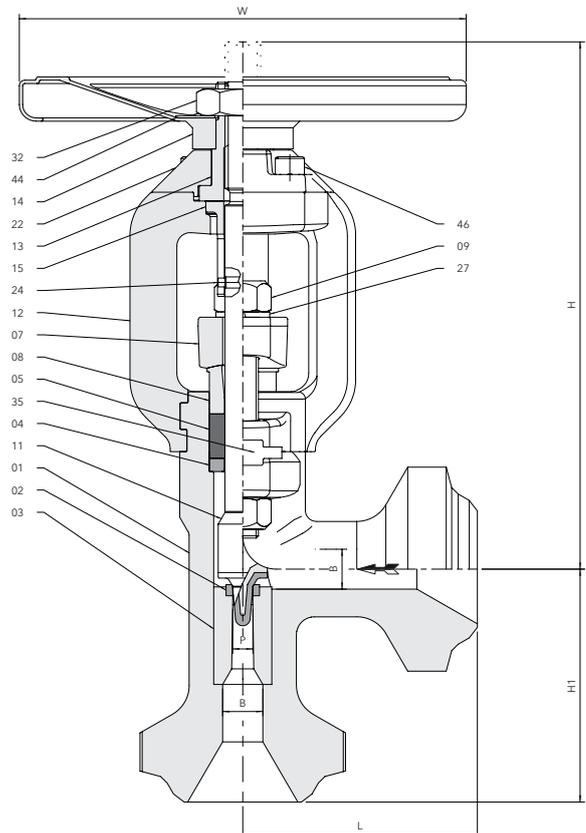
ASME CLASS:  
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EN CLASS:  
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**MATERIALS**

01. Body	Various (see above)
02. Seat	Stellite
03. Venturi	A182-F316
04. Backseat	AISI 304
05. Stem Packing	Graphite
07. Gland Flange	Carbon Steel
08. Gland	AISI 304
09. Gland Bolt / Nut	A193-B7 / A194-2H
11. Stem / Disc	17 CR / Stellite (see above)
12. Yoke	Carbon Steel
13. Yoke Sleeve	Aluminium-Bronze
14. Handwheel	Carbon Steel
15. Guiding Bush	AISI 304
22. Yoke Cap	Carbon Steel
24. Guide Pin	17 CR
27. Springwasher	Steel Zinc Plated
32. Thin Nut	Steel Zinc Plated
35. Cross Key	13 CR
44. Nameplate	Stainless Steel
46. Yoke Cap Bolt	Steel Zinc Plated

**MAIN DIMENSIONS IN MM (INCH)**

NOM. SIZE	P	B	L	H	H1	W	WEIGHT KG
10 (3/8")	18 (0.71)	11 (0.43)	75 (2.95)	238 (9.4)	75 (2.95)	200 (7.9)	7.5 (16.5 LB)
15 (1/2")	18 (0.71)	11 (0.43)	75 (2.95)	238 (9.4)	75 (2.95)	200 (7.9)	7.5 (16.5 LB)
20 (3/4")	18 (0.71)	14 (0.55)	75 (2.95)	238 (9.4)	75 (2.95)	200 (7.9)	7.5 (16.5 LB)
25 (1")	18 (0.71)	18 (0.71)	75 (2.95)	238 (9.4)	75 (2.95)	200 (7.9)	7.4 (16.3 LB)
32 (1-1/4")	18 (0.71)	18 (0.71)	105 (4.13)	238 (9.4)	105 (4.13)	200 (7.9)	10.2 (22.5 LB)
40 (1-1/2")	18 (0.71)	18 (0.71)	105 (4.13)	238 (9.4)	105 (4.13)	200 (7.9)	10.2 (22.5 LB)
50 (2")	18 (0.71)	18 (0.71)	105 (4.13)	238 (9.4)	105 (4.13)	200 (7.9)	10.2 (22.5 LB)
65 (2-1/2")	18 (0.71)	18 (0.71)	105 (4.13)	238 (9.4)	105 (4.13)	200 (7.9)	10.2 (22.5 LB)