

Introduction



FABRI-WALVE

ENGINEERED FOR LIFE

Standard Valve? No Such Thing.

ITT Corporation has built a remarkable reputation in the standard and custom-engineered valve industry based upon the simple, yet innovative business practice that there is no such thing as a standard valve. Whether it's a tried and true valve – or a valve that exists only in your imagination –We can make it happen. Our inventory of affordable and ready to go Fabri-Valve designs is unrivaled in the industry.

All on hand for rapid shipment to you. What's more for over fifty years, the Fabri-Valve name means valves built and modified with customizations the industry has mandated.

Fabri-Valve[®] is one segment of ITT's valve group which also manufactures Dia-Flo[®], Cam-Tite[®], Skotch[®], Cam-Line[®], and Pure-Flo[®] products. The innovations shared have meant flexibility in design, speed of construction, higher performance and more economical alternatives.

And as industry has evolved, so has the Fabri-Valve brand – with a proactive philosophy and a "can do" attitude. We approach each customer's requirements with the certainty that we will provide the right valve for the right job. Our unparalleled resources offer an affordable single source solution for all your valve requirements.

Whether it's valves required for the demands of pulp and paper, chemical, petroleum refining, mining, iron and steel, wastewater, power, food and beverage, or marine companies, ITT builds the Fabri-Valve designs that our customers call for and require.

If it can be welded, we can make it. ITT builds fabricated, lined, and cast Fabri-Valve designs in five basic materials: 304, 316 and 317L stainless steels, carbon steel, and ductile iron. Our valve capabilities also cover virtually all weldable alloys...titanium, 254 SMO[®], HASTELLOY, etc...

Our flexible factory allows for and aggressively seeks creative solutions to customers' challenges. We have built a business and a reputation on the fact that there is no such thing as a standard valve or a standard job. We know that each and every application has variables that can hinder or stop your process. Based upon our long-standing and diverse valve construction experience, Fabri-Valve can demonstrate a host of options and will customize the exact valve for your exact requirements. We understand the rigors of the fluids, gases and slurries that flow through your piping systems. The right valve for the right job. Our valves substantially reduce downtime and maintenance costs and consistently outlive their payback period. Our company history is built upon that strength.

In addition to our inventories, we employ lean manufacturing techniques that ensure quick on-time delivery and rapid throughput on all orders – from the most routine to the most complex. With valve and stock bodies constructed to your exact specifications. And, if your circumstances require it, we can fabricate a completely new and job-specific valve.



Standard Customers? No Such Thing.

ITT works to give the customer exactly what is needed, when it is needed. For every style of valve and construction type that is out there, there are hundreds of even more varied uses, with thousands of different customers who have their own unique circumstance. Short turnaround time with right and tight delivery schedules. Lead times and costs held to a minimum – even when supplying exceptionally large or highly customized hardware valve assemblies.

We stand behind our product. Keeping in mind that quality of valve construction is always managed with a keen focus on safety, environment and health in the applied use and employment of our valves. This is quality you can trust to get the job done for you.

We at ITT know that it takes expertise and a solid track record to provide valves for such a wide and highly critical range of uses. Where valve performance is not just measured in production and profits, but in what they restrict, control and protect as well.

Standard Problem Solving? Hardly Ever.

In business since 1948, Fabri-Valve, manufactured by ITT, has a proven track record in solving specific and individual customer challenges. We modify or make customized valves to our clients' exact specifications. From valves that are 2" in diameter to valves that will easily house a family of four, we make your valves in a way that they work. No ifs, ands or buts. Tell us what you require and we'll make it. It's just that simple.

Lined, cast or fabricated valve construction, the very nature of fabrication allows a maximum of flexibility in customizing to meet specific needs, materials, pressure rating and configuration.



The largest knife gate valve we made in Amory, MS USA had a 96'' internal diameter (the area of a 7' x 7' room)

Standard Workforce? Not Around Here.

To make such promises, you must have a workforce that is experienced, empowered and dedicated to working hard to make selecting the right valve easy. Our employees have an average of 16 years' experience in this critical and complex field. They are people with a "can do" attitude. They pride themselves on their technical savvy and empowered approach. Troubleshooting is no trouble for a workforce that focuses all of this experience on making or modifying the right valve for you. Whether it is creating a valve from scratch or modifying a standard option, our workforce is dedicated to giving a customer what is needed.

A High Standard for Quality, Safety, Environmental and Health Concerns? You Bet.

ITT, for over 50 years, has made it a point of pride to place a strong emphasis on quality, safety, environmental and health concerns – for our workforce, our customers and populations that these products serve. We know it takes a fully equipped testing laboratory, surface smoothness measuring, nuclear alloy analysis, testing, radiography, finite element analysis, and one hundred percent testing to ensure that safety.

Our exhaustive testing, combined with an experienced and keen eye on all of these measures of quality control, makes us the leader in providing you with the right valve for the right job. You can have confidence in what we say; our track record demonstrates our commitment to providing the most reliable and hardest working valves in the industry. Your environment, your health and the safety of your employees and end users are always at the forefront of every quality check we enforce. Whether it's a standard or custom-designed valve, ITT makes it. And makes it right.



What you want, when you need it?

Now you know. ITT Fabri-Valve.



Engineered Valves, LLC 1110 Bankhead Ave Amory, MS 38821 662.256.7185 www.engvalves.com © 2012 ITT Enginered Valves, LLC

Form Intro

Fabri-Valve®

CF37 Heavy Duty Knife Gate Valve



FABRI-VALVE

FV-1341

SEAT

ENGINEERED FOR LIFE

CF37 Heavy Duty Knife Gate Valve



Figure C37 with energized cored packing.

Energized cored packing is standard with 6" (DN 150) and larger C37 valves and all F37 valves.

Fabri-Valve Figures C37 and F37 are some of the most popular knife gate valve configurations. Figure C37 knife gate valves through 24", feature a heavy duty, rugged one-piece cast body, chest and flanges (except 5", which is fabricated – F37). Sizes larger than 24" are fabricated from heavy plate. The Figure C/F37 is available in all stainless steel (designated "S") or with alloy steel wetted parts and carbon steel external parts (designated "R"). In sizes 1.5" through 24", the "S" and the "R" share the same solid cast body. Sizes larger than 24" feature fabricated bodies configured to the service conditions. The Figure C/F37 is available with the widest range of seats in the industry including: integral metal, replaceable hardfaced metal, rubber "D" ring, replaceable rubber, polyurethane, UHMW-P, and PTFE. Standard body materials include 304, 316, and 317L stainless steel. Special alloys such as 254 SMO® are also available. Special flange drillings are also available.

All Figure C/F37 knife gate valves with handwheels include a provision for a locking device. Consult factory for details.

Specifications

Size Range

1.5" – 96"

Pressure Rating

1.5" – 24": 25" – 48": 150 psi (10.3 bar) CWP (cold working pressure) Designs available in 50 psi (3.5 bar), 100 psi (6.9 bar) or 150 psi (10.3 bar) CWP

Larger than 48": Manufactured to customer specification

Temperature Rating

1.5" – 48" 450°F (232°C).

Service temperatures above 400°F (204°C) require high temperature fasteners. Specify service temperature on paperwork. Consult factory for sizes larger than 48"(DN 1200) and for service temperatures up to 1500°F (816°C).

Flange Drilling ANSI 125/150

Testing

Every Fabri-Valve Figure C/F37 valve is fully tested prior to shipment. Testing includes a body shell test, a seat test and a cycling test to insure proper functioning of moving parts. Additional testing is also available. Please let us know your requirements.

Standard Shell test:

• Hydro test at 1.5 times the rated CWP (cold working pressure) – Zero allowable leakage

Standard Seat test:

- Metal Seat: Hydro test at 40 psi (2.8 bar) and at the rated CWP
- Resilient Seat: Hydro test at 15 psi (1 bar) and rated CWP

Pressure/Temperature Ratings

The tables below are the Maximum Pressure/Temperature Ratings for the metallic components only. When checking pressure/ temperature ratings, check the temperature rating and chemical compatibility of the packing material and, if applicable, the resilient seat material. In a majority of knife gate valve designs, the temperature limit or the chemical compatibility of the seat and/or packing material determines the practical pressure/temperature limitations.

Figure C37													
	Pressure/Temperature Rating - psi												
Ter °F	np °C	Cast 304	Cast 304L	Cast 316	Cast 316L	Cast 317L	Cast WCB A-216	Cast DI					
150	66	150	150	150	150	150	150	150					
200	93	142	142	150	150	135	150	150					
250	121	135	135	142	142	128	150	147					
300	149	129	129	134	134	121	150	143					
350	177	123	123	128	128	116	150	139					
400	204	118	118	123	123	112	150	135					
450	232	114	114	118	118	108	150	131					
500	260	111	111	114	114	105	150	127					
600	316	104	104	108	108	100	150	119					
700	371	101	101	104	104	96	142						
800	427	96	96	100	100	92	103						
900	482	93		99			57						
1000	538	89		97			21						
1100	593	64		76									
1200	649	41		46									
1300	704	28		29									
1400	760	20		20									
1500	816	15		14									

Shutoff Performance

Metal Seat

• Single integral metal seat

1.5" - 24	4″	40cc,	/ m	inute	/	incl	n c	of va	lve	size
								-		

- 25" 48" 60cc / minute / inch of valve size
- Above 48" Consult Factory
- Single hardfaced integral metal seat
 - 1.5" 24"80cc / minute / inch of valve size25" 48"120cc / minute / inch of valve sizeAbove 48"Consult Factory
- Dual metal seats Consult factory. All sizes.
- Single hardfaced replaceable metal seat
 1.5" 24"
 80cc / minute / inch of valve size
 Above 24"
 Consult Factory

Resilient Seat

- Single "D" ring, or single replaceable resilient seat (excluding PTFE)
 Zero leakage. All sizes.
- Dual seats
 - Consult Factory. All sizes.
- Single replaceable PTFE seat Consult Factory. All sizes.

Figure F37												
Pressure/Temperature Rating - psi												
Ter	np	204	2041	216	2461	2471	A 26	A 5460-70				
°F	°C	304	304L	310	310L	317	A 30	A516Gr70				
150	66	150	133	150	133	150	150	150				
200	93	133	114	141	113	135	137	150				
250	121	126	108	133	107	128	135	150				
300	149	120	102	124	101	121	133	150				
350	177	115	98	119	97	116	131	150				
400	204	110	93	114	93	112	128	150				
450	232	107	90	110	90	108	125	150				
500	260	103	87	106	87	105	121	150				
600	316	97	82	101	83	100	111	150				
700	371	94	80	97	80	96	108	142				
800*	427*	89	77	93	77	92		103				
900*	482*	87		92				57				
1000*	538*	83		90				21				
1100*	593*	78		88								
1200*	649*	49		59								
1300*	704*	30		33								
1400*	760*	18		18								
1500*	816*	11		10								

* "R" Series valves have external, non-wetted, carbon steel components. Standard "R" Series valves are limited to 700°F (371°C); however alternate "R" Series constructions are available to 1000°F (538°C)

NOTE: Each valve is identified by Size-Figure-Series-etc. The "How To Order" section explains the Valve Model Codes.

Low Pressure Operation

Metal seated knife gate valves are seat tested at 40 psid (2.8 bar) in the preferred flow direction. When pressure falls below the 40 psid (2.8 bar) test pressure, less force is pushing the gate into the seat, which may result in additional seat leakage. When improved low-pressure shutoff performance is required, optional chest buttons and/or centerline buttons should be specified.

Available Options

- "D" Ring Seat
- Lever Operator
- Dual Seats
- Poly Replaceable Seats
- UHMW Replaceable Seats
- PTFE Replaceable Seats
- Rubber Replaceable Seats
- Hard Faced Replaceable Seats
- Elastomer Replaceable Seats
- Hard Faced Gate Edge
- Hard Gate Material
- Nickel-TFE Coated Gate

- Epoxy Coating
- Thru Drilled Flanges
- Flush Ports
- Chest Buttons: Not available 2"-6"
- Centerline Buttons
- Backing Ring
- Extra Wedges
- V-Port

Dimensions: C37 with Handwheel or Cylinder

- Cast Ni-Hard Deflection Cones Available 3"-16"
- Fabricated Deflection Cones
- Locking Devices

- Live Loaded Packing
- Self-Supporting Yokes
- Alternate Flange Drilling
- Bevel Gear
- Chainwheels
- Cylinder Actuators
- Electric Actuators
- Ratchet
- Extended Stems
- Gate Support Strips
- Rod Boots

Valve S	ize	TABLE	1					DIMENSIC	N Inches (I	nm) Figu	ure C37	with HA		WHEEL OR	CYL	INDER						Weig	ght **
Inches	DN		Α			С		D		H*	J	K	L	М	Ν	Р	R	S	Т	٧	W	lb	kg
		HW	2-1/2 CYL	3-1/4 CYL	HW	2-1/2 CYL	3-1/4 CYL	2-1/2 CYL	3-1/4 CYL														
2	50	13-11/16 (348)	18-3/8 (467)	16-7/8 (429)	8 (203)	3 (76)	4 (102)	3/8-18	1/4-18	2 (51)	6 (152)	3/8 (10)	2	5/8-11NC	4	4-3/4 (121)	3-5/8 (92)	4 (102)	1/16 (2)	9/16 (14)	1-7/8 (48)	17	8
		HW	2-1/2 CYL	3-1/4 CYL	HW	2-1/2 CYL	3-1/4 CYL	2-1/2 CYL	3-1/4 CYL														
3	80	16-7/16 (418)	20-7/8 (530)	19-3/8 (492)	8 (203)	3 (76)	4 (102)	3/8-18	1/4-18	3 (76)	7-1/2 (191)	13/32 (10)	2	5/8-11NC	4	6 (152)	5 (127)	4 (102)	1/16 (2)	9/16 (14)	2 (51)	21	10
		HW	3-1/4 CYL	4 CYL	HW	3-1/4 CYL	4 CYL	3-1/4 CYL	4 CYL														
4	100	19-3/16 (487)	22-1/8 (562)	22-7/8 (581)	8 (203)	4 (76)	4-1/2 (114)	1/4-18	3/8-18	4 (102)	9 (229)	13/32 (10)	2	5/8-11NC	8	7-1/2 (191)	6-3/16 (157)	4 (102)	1/16 (2)	11/16 (17)	2 (51)	30	14
		HW	4 CYL	6 CYL	HW	4 CYL	6 CYL	4 CYL	6 CYL														
6	150	25-5/16 (643)	28-7/8 (733)	29-1/4 (743)	10 (254)	4-1/2 (114)	6-1/2 (165)	3/8-18	3/8-18	6 (152)	11 (279)	7/16 (11)	2	3/4-10NC	8	9-1/2 (241)	8-1/2 (216)	7-3/8 (187)	1/16 (2)	5/8 (16)	2-1/4 (57)	75	34
		нw	6 CYL	8 CYL	HW	6 CYL	8 CYL	6 CYL	8 CYL														
8	200	32-5/8 (829)	35-13/16 (910)	36-5/16 (922)	12 (305)	6-1/2 (165)	8-5/8 (219)	3/8-18	3/8-18	8 (203)	13-1/2 (343)	5/8 (16)	2	3/4-10NC	8	11-3/4 (298)	10-5/8 (270)	7-3/8 (187)	1/16 (2)	13/16 (21)	2-3/4 (70)	94	45
		HW	8 CYL	10 CYL	HW	8 CYL	10 CYL	8 CYL	10 CYL														
10	250	37-3/4 (959)	41-7/16 (1053)	42-3/16 (1072)	16 (406)	8-5/8 (219)	10-7/8 (276)	3/8-18	1/2-14	10 (254)	16 (406)	1/2 (13)	4	7/8-9NC	12	14-1/4 (362)	12-3/4 (324)	7-3/8 (187)	1/8 (3)	15/16 (24)	2-3/4 (70)	126	57
	HW	8 CYL	10 CYL	HW	8 CYL	10 CYL	8 CYL	10 CYL															
12	300	44-9/16 (1132)	48 (1219)	48-3/4 (1238)	16 (406)	8-5/8 (219)	10-7/8 (276)	3/8-18	1/2-14	12 (305)	19 (483)	1/2 (13)	4	7/8-9NC	12	17 (432)	15 (381)	7-1/2 (191)	3/16 (5)	1 (25)	3 (76)	177	80
		HW	12 CYL	14 CYL	HW	12 CYL	14 CYL	12 CYL	14 CYL														
14	350	49-1/4 (1251)	54-1/16 (1373)	55-3/16 (1402)	20 (508)	12-3/4 (324)	14-3/4 (375)	1/2-14	3/4-14	13-1/4 (337)	21 (533)	7/16 (11)	4	1-8NC	12	18-3/4 (476)	16-1/4 (413)	7-3/4 (197)	3/16 (5)	15/16 (24)	3 (76)	215	98
		HW	12 CYL	14 CYL	HW	12 CYL	14 CYL	12 CYL	14 CYL														
16	400	56-1/2 (1435)	61-1/16 (1551)	62-3/16 (1580)	20 (508)	12-3/4 (324)	14-3/4 (375)	1/2-14	3/4-14	15-1/4 (387)	23-1/2 (597)	9/16 (14)	6	1-8NC	16	21-1/4 (540)	18-1/2 (470)	11-1/4 (286)	3/16 (5)	1-1/16 (27)	3-1/2 (89)	268	122
		HW	12 CYL	14 CYL	HW	12 CYL	14 CYL	12 CYL	14 CYL														
18	450	63-5/16 (1608)	66-1/2 (1689)	67-5/8 (1718)	20 (508)	12-3/4 (324)	14-3/4 (375)	1/2-14	3/4-14	17-1/4 (438)	25 (635)	5/8 (16)	6	1-1/8-7NC	16	22-3/4 (578)	21 (533)	11-1/4 (286)	3/16 (5)	1-1/16 (27)	3-1/2 (89)	407	185
		HW	14 CYL	16 CYL	HW	14 CYL	16 CYL	14 CYL	16 CYL														
20	500	68-5/8 (1743)	72-15/16 (1853)	73-7/16 (1865)	20 (508)	14-3/4 (375)	17 (432)	3/4-14	3/4-14	19-1/4 (489)	27-1/2 (699)	29/32 (23)	8	1-1/8-7NC	20	25 (635)	23 (584)	14 (356)	3/16 (5)	1-3/16 (30)	4-1/2 (114)	523	237
		HW	16 CYL	18 CYL	HW	16 CYL	18 CYL	16 CYL	18 CYL														
24	600	79-13/16 (2027)	84-11/16 (2151)	86-5/8 (2200)	20 (508)	17 (432)	19 (483)	3/4-14	3/4-14	23-1/4 (591)	32 (813)	13/16 (21)	8	1-1/4-7NC	20	29-1/2 (749)	27-1/4 (692)	14-1/8 (359)	3/16 (5)	1-5/16 (33)	4-1/2 (114)	713	321

Reference dimensions in (parentheses)

* For 14" - 24" valves with rubber replaceable seats, use the port I.D. dimensions show in the Flow Coefficients Table (see last page).

** Figures C37R and C37S with Handwheels

C37 with Handwheel or Cylinder



Dimensions: C37 with Bevel Gear

Valve S	Size	TABLE 2 DIMENSION Inches (mm) Figure C37 with BEVEL GEAR																
Inches	DN	Α	В	С	D	Е	Н	J	K	L	М	Ν	Р	R	S	Т	V	W
6	150	25-5/16 (643)	19-11/16 (500)	12 (305)	12-3/8 (314)	6-1/2 (165)	6 (152)	11 (279)	7/16 (11)	2	3/4-10NC	8	9-1/2 (241)	8-1/2 (216)	7-3/8 (187)	1/16 (2)	5/8 (16)	2-1/4 (57)
8	200	32-15/16 (837)	24-5/8 (625)	12 (305)	12-3/8 (314)	6-1/2 (165)	8 (203)	13-1/2 (343)	5/8 (16)	2	3/4-10NC	8	11-3/4 (298)	10-5/8 (270)	7-3/8 (187)	1/16 (2)	13/16 (21)	2-3/4 (70)
10	250	38-1/16 (967)	27-9/16 (700)	12 (305)	12-3/8 (314)	6-1/2 (165)	10 (254)	16 (406)	1/2 (13)	4	7/8-9NC	12	14-1/4 (362)	12-3/4 (324)	7-3/8 (187)	1/8 (3)	15/16 (24)	2-3/4 (70)
12	300	44-9/16 (1132)	31-13/16 (808)	12 (305)	12-3/8 (314)	6-1/2 (165)	12 (305)	19 (483)	1/2 (13)	4	7/8-9NC	12	17 (432)	15 (381)	7-1/2 (191)	3/16 (5)	1 (25)	3 (76)
14	350	49-5/16 (1252)	34-3/4 (883)	12 (305)	12-3/8 (314)	6-1/2 (165)	13-1/4 (337)	21 (533)	7/16 (11)	4	1-8NC	12	18-3/4 (476)	16-1/4 (413)	7-3/4 (197)	3/16 (5)	15/16 (24)	3 (76)
16	400	56-9/16 (1437)	40-3/8 (1026)	12 (305)	12-1/16 (306)	6-1/2 (165)	15-1/4 (387)	23-1/2 (597)	9/16 (14)	6	1-8NC	16	21-1/4 (540)	18-1/2 (470)	11-1/4 (286)	3/16 (5)	1-1/16 (27)	3-1/2 (89)
18	450	63-5/16 (1608)	43-13/16 (1113)	12 (305)	12-1/16 (306)	6-1/2 (165)	17-1/4 (438)	25 (635)	5/8 (15)	6	1-1/8-7NC	16	22-3/4 (578)	21 (533)	11-1/4 (286)	3/16 (5)	1-1/16 (27)	3-1/2 (89)
20	500	68-5/8 (1543)	47-15/16 (1218)	12 (305)	12-1/16 (306)	6-1/2 (165)	19-1/4 (489)	27-1/2 (699)	29/32 (23)	8	1-1/8-7NC	20	25 (635)	23 (584)	14 (356)	3/16 (5)	1-3/16 (30)	4-1/2 (114)
24	600	79-7/8 (2029)	55-3/16 (1402)	12 (305)	12-1/16 (306)	6-1/2 (165)	23-1/4 (591)	32 (813)	13/16 (21)	8	1-1/4-7NC	20	29-1/2 (749)	27-1/4 (692)	14-1/8 (359)	3/16 (5)	1-5/16 (33)	4-1/2 (114)

Reference dimensions in (parentheses)

6" - 14" valves have a bevel gear ratio of 3:1

16" - 24" valves have a bevel gear ratio of 4:1

Materials of Construction

Parts	Materials								
1 4113	C37R & F37R	C37S & F37S							
Body and Chest	1.5" – 24"(except 5") solid one piece. C37R-304: Cast 304 stainless steel C37R-316: Cast 316 stainless steel C37R-317L: Cast 317L stainless steel	1.5" - 24" (except 5") solid one piece. C37S-304: Cast 304 stainless steel C37S-316: Cast 316 stainless steel C37S-317L: Cast 317L stainless steel							
	Larger than 24" and the 5" are fabricated with stainless steel wetted parts and carbon steel exterior parts.	Larger than 24" and the 5" are fabricated of all stainless steel							
Seat	 Integral seat to 1500°F (816°C) with appropriate packing RH: Replaceable hardfaced seat to 750°F (399°C) standard Up to 1600°F(871°C) with proper packing and gaskets RT: Replaceable PTFE seat to 400°F (204°C) RW: Replaceable UHMWP seat to 140°F (60°C) RP: Replaceable polyurethane seat to 180°F (82°C) 								
Gate	Stainless steel of same grade used in body, finished to 32 RMS								
Yoke	1.5" - 4", Cast ductile iron 6" and above fabricated carbon steel	1.5" - 4", cast 304 stainless steel 6" and above fabricated 304 stainless steel							
Yoke Fasteners	Plated steel	Stainless steel							
Stem	304 stain	less steel							
Stem Nut	Acid resist	ant bronze							
Lubrication Fitting	Plated	t steel							
Packing	Acrylic/PTF	E/silicone ¹							
Packing Follower	Ductile iron/carbon steel with plated steel bolts	304 stainless steel with stainless steel bolts							
Handwheel	Casi	iron							
Handwheel Retaining Nut	Malleable iron	Stainless steel							
Tab Washer	Stainless steel								

¹ Energized cored packing is standard with 6" (DN150) and larger C37 valves and all F37 valves.

C37 with Bevel Gear





Flow Coefficients

The Cv values below represent U.S. gallons per minute 60° F water through a 100% open valve at a pressure drop of 1 psi. The metric equivalent, Kv, is the flow of water at $+16^{\circ}$ C through the valve in cubic meters per hour at a pressure drop of 1 kg/cm2. To convert Cv to Kv, multiply the Cv by 0.8569.

	Figures C37 and F37 Cv Ratings, Port Diameter, and Area												
		s	tandard P	ort		With V-Sea	t	With Replaceable Poly or Replaceable Rubber seat					
Valvo In.	e Size DN	Cv	Port I.D. Inches	.D. Port Area es Sq. In. C		Port Inside Inches	Port Area Sq. In.	Cv	Port I.D. Inches	Port Area Sq. In.			
2	50	288	2.00	3.1	165	2.00	2.8	288	2.00	3.1			
3	75	648	3.00	7.1	355	3.00	6.3	648	3.00	7.1			
4	100	1,152	4.00	12.6	515	4.00	9.5	1,152	4.00	12.6			
6	150	2,592	6.00	28.3	1,350	6.00	24.9	2,592	6.00	28.3			
8	200	4,608	8.00	50.3	2,050	8.00	38.1	4,608	8.00	50.3			
10	250	7,208	10.00	78.5	3,200	10.00	59.0	7,208	10.00	78.5			
12	300	10,400	12.00	113.1	4,450	12.00	82.3	10,400	12.00	113.1			
14	350	12,650	13.25	137.9	5,350	13.25	98.8	10,080	12.00	113.1			
16	400	16,750	15.25	182.6	6,950	15.25	128.4	14,200	14.25	159.5			
18	450	21,450	17.25	233.7	10,700	17.25	198.2	18,500	16.25	207.4			
20	500	26,700	19.25	291.0	13,250	19.25	245.4	22,700	18.00	254.5			
24	600	38,900	23.25	424.6	15,400	23.25	284.7	33,900	22.00	380.1			
30*	750*	49,850	26.69	559.4						·			
36*	900*	74,800	32.69	839.2			Consult	Factory					
42*	1050*	104,800	38.69	1175.5			Sonoult	lationy					
48*	1200*	136,700	44.19	1533.5									

*50 psi (3.5 bar) CWP valve design. Contact factory for higher pressure designs.



Engineered Valves, LLC 1110 Bankhead Ave Amory, MS 38821 662.256.7185 www.engvalves.com © 2012 ITT Enginered Valves, LLC

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