

Three Piece High Performance Fire Safe Valves

Tri-Pro Series Models / Full Port

HPF50 - (316SS) HPF40 - (WCB)

Size Range: 1/4" - 4" Pressure Rating: NPT/SW/BW 3000 MAWP/WOG 1/4" - 3/4" 2250 MAWP/WOG 1" - 4" Flanged End - Class 600 Temp. Rating: See Chart 1 & 2 on pages 4 and 5. **Models / Reduced**

HPS50 - (316SS) HPS40 - (WCB)

Size Range: 1/2" - 4" Pressure Rating: 3000 MAWP/WOG 1/2" - 1" 2250 MAWP/WOG 1-1/4" - 4" Temp. Rating: Consult Factory



1" HPF52 (SW) weld in place

> **Tri-Pro Series** STANDARD PRODUCT NUMBER HPF51-SS-1-FGFG-L (Full-Port SS NPT) HPF52-SS-2-FGFG-L (Full-Port SS SW) HPF53-SS-3-FGFG-L (Full-Port SS BW) HPF56-SS-6-FGFG-L (Full-Port SS FLANGED) HPF41-CS-1-FGFG-L (Full-Port CS NPT) HPF42-CS-2-FGFG-L (Full-Port CS SW) HPF43-CS-3-FGFG-L (Full-Port CS BW) HPF46-CS-6-FGFG-L (Full-Port CS FLANGE) HPS51-SS-1-FGFG-L (Reduced-Port SS NPT) HPS52-SS-2-FGFG-L (Reduced-Port SS SW) HPS53-SS-3-FGFG-L (Reduced-Port SS BW) HPS41-CS-1-FGFG-L (Reduced-Port CS NPT) HPS42-CS-2-FGFG-L (Reduced-Port CS SW) HPS43-CS-3-FGFG-L (Reduced-Port CS BW)



Tri Pro's Advantage





3" HPF51 (NPT)

Design Features / Options

Fire Safe Certified to API 607 7th Edition Ability to handle extreme pressure ISO 5211 Actuator Mounting Pad and temperature shock Secondary media containment(available) Ability to withstand higher Anti-static grounding device pressure drop Weld-in-Place, SW / BW Ability to handle slurries and Protected seat design resist abrasion and wear Two fully contained body seals Bubble tight sealing to 500°F Cap screw body assembly Bubble tight sealing to 2250 psi / 3000 psi Cryogenic service (available) Ability to handle thermal fluids V-Port control (available) and super heated steam Metal seats (available) Superior stem seal design **REFINED BY DESIGN, DIFFERENT BY INTENT**

Tri-Pro! One Valve for Most Applications

Design Specifications HO-THO INCO and Standards of Compliance

Parallel flat stem head for

positive ball position

indication. 17-4 PH as

standard stem material

C

I-SO Mount Actuator Mounting, 4 Bolt design eliminates torsional stress, actuator can be removed while valve is under full pressure

Anti-static grounding devices at two locations provide electrical continuity

Pocketed and recessed seats with secondary metal backup seal

Fully encapsulated graphite gaskets isolate media from atmosphere

Locking device

Tab washer prevents nut from loosening

Lived-loaded Belleville washer maintains constant packing load

> V-Ring packing rings form a rigid, high cycle stem seal

> > Thrust bearing enables an excellent long life bearing support

Fully encapsulated TFM gaskets adds secondary barrier

Body precision investment casting, shell/wall ANSI B16.34

Fully encapsulated cap screws protected from outside environment Tech Bulletin Page 51-22 Page 2 **Technical Specification**

ANSI Class 600/800

All Tri-Pro valves are designed to meet ASME/ANSI B16.34 Class 600 specifications and can be certified as such upon request at order submittal. The valve design is in compliance with BS 5351, BS 5159.

Threaded and Socket Welding Ends meet ASME/ANSI B16.34 Class 600/800 or 2250WOG (sizes: 1"~4")/3000WOG (size: 1/4"~3/4").

Threaded End Connections meet ASME/ANSI B1.20.NPT, BSPT ISO R/7, BS21, MSS-SP-110

Socket Weld End Connections meet ASME/ANSI B16.11, MSS-SP-110 Butt Weld End Connections meet MSS SP72. ANSI B16.25, B16.5 Figure 2 detail recommended sch.40 up to 1000 psi, sch.80 up to 2200 psi.

Flanged End Connections meet ASME/ANSI Class 600, ASME/ANSI B16.10 and B16.5.

MSS SP25 compliance for standard marking system.

All Tri-Pro Valves with 316SS stems can meet NACE MR0175 as an option, especially for sour gas service.

All valves are Fire Safe & certified to API 607 7th Edition. Fire Safe Designed Valves must have graphite stem packing All valves are in compliance with federal Spec WW-V-35C Type II.

All valves are in compliance with API 608. Valve body and end connections are high quality investment cast and solution annealed/normalized.

Valves (sizes: 1-1/4" ~ 2") certified to European Standards: EN 1226-1. EN 10213. EN12516-2 by: TÜV Rheinland Industrie Service GmbH Notified Body, ID-No. 0035 Am Grauen Stein, D-51105 Köln

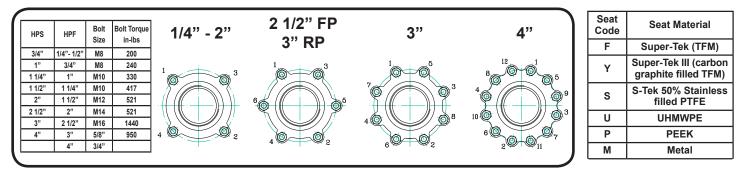
All valves have CE marking on either metal name plate or handle sleeve. All valves are hydrostatically shell tested to 1.5 x rating. All valves 100% air tested under water at 80-100 psi.

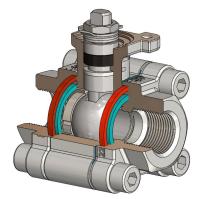
Vacuum Service Suitable to 25 Torr

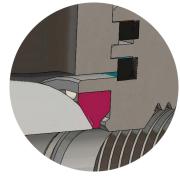
Specially cleaned and lubricated valves can handle services 20 mm of Hg (20 micron)

Quality Assurance

All valves are manufactured to ISO 9001 quality standards.







Detail of protected seat and encapsulated body seal design isolates and protects both seats and seals from flow path. Helps prevent cold flow.



Seats & dual body seals assemble into valve end caps

BILL OF MATERIALS:

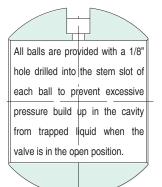
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ITEM	NAME	STAINLESS STEEL	CARBON STEEL	QTY
1	BODY	ASTM A351 CF8M	ASTM A216 WCB	1
2	CAPS *	ASTM A351 CF8M	ASTM A216 WCB	2
3	BALL	ASTM A351 CF8M	ASTM A351 CF8	1
4	SEATS #	TFM	TFM	2
5	GASKETS #	TFM	TFM	2
6	GASKETS #	Graphite	Graphite	2
7	BOLT **	EN3506 A2-70/ ASTM A193 B8	EN3506 A2-70/ ASTM A193 B7	8
8	STEM	17-4PH	17-4PH	1
9	THRUST BEARING #	CPTFE	CPTFE	1
10	THRUST WASHER #	50%SS PTFE	50%SS PTFE	1
11	STEM PACKING #	Graphite	Graphite	SET
12	PACKING FOLLOWER	SS304	SS304	1
13	BELLEVILLE WASHERS	SS304	SS304	2
14	LOCK WASHER	SS304	SS304	1
15	STEM NUTS	SS304	SS304	2
16	HANDLE	SS304	SS304	1
17	STOPPER	SS304	SS304	1
18	PLASTIC COVER	Plastic	Plastic	1
19	LOCKING DEVICE	SS304	SS304	1
20	ANTI-STATIC SPRINGS	SS301	SS301	2
21	ANTI-STATIC BALLS	\$\$316	SS316	2

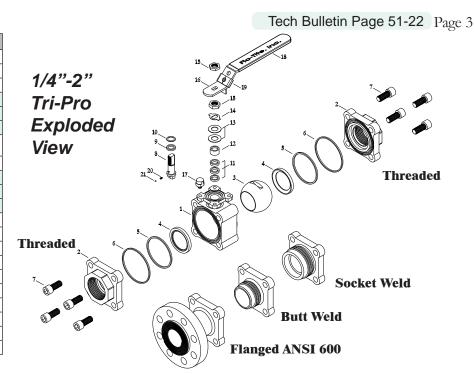
Parts included in the repair kits

* All SS welded ends 316L

** 316SS bolting available, C/F

Ball Design Added Safety Feature





Flo-Tite's Van Guard Stem Sealing System

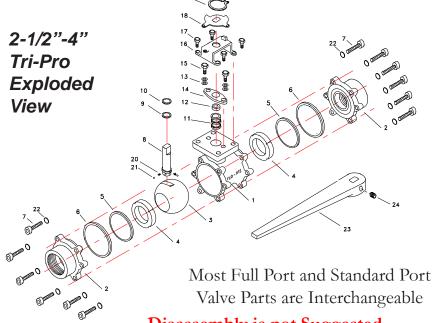
 igta Flo-Tite's Van Guard Seal, state of the art stem sealing system. Incorporating a triple set of valve stem seals, this unique system eliminates the possibility of valve stem leaks in most all media applications. Improved thrust washer design allows more sealing surface effectively blocking all leak paths during rotation.

V-Ring Packing Set expands sideways as it is compressed and pressurized, blocking all air pockets. The Van-Guard stem system is energized by Belleville washers which continuously adjusts

packing compression to compensate for wear, pressure, or temperature fluctuations.

Note: • Standard Valve is Fire Safe Design with Graphite Packing.

• For higher sealing requirements, optional O-ring is available upon request.



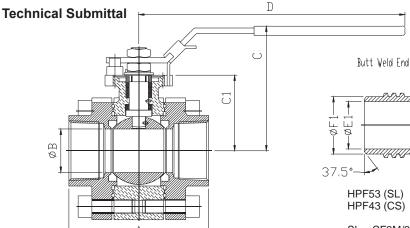
Disassembly is not Suggested. Disassembly will VOID the valve warranty.

BILL OF MATERIALS:

	NAME	STAINLESS STEEL	CARBON STEEL	QTY
1	BODY	ASTM A351 CF8M	ASTM A216 WCB	1
2	CAPS	ASTM A351 CF8M	ASTM A216 WCB	2
3	BALL	ASTM A351 CF8M	ASTM A351 CF8	1
4	SEATS #	TFM	TFM	2
5	GASKETS #	TFM	TFM	2
6	GASKETS #	Graphite	Graphite	2
7	BOLTS **	ASTM A193 B8	ASTM A193 B7	SET
8	STEM	17-4PH	17-4PH	1
9	O-Ring #	Viton	Viton	1
10	THRUST WASHER #	50%SS PTFE	50%SS PTFE	1
11	STEM PACKING #	Graphite	Graphite	set
12	PACKING FOLLOWER	SS304	SS304	1
13	BELLEVILLE WASHERS	SS304	SS304	2
14	PACKING GLAND	SS304	SS304	1
15	GLAND BOLTS	SS304	SS304	2
16	STOP HOUSING	SS304	SS304	1
17	HOUSING BOLTS	SS304	SS304	4
18	TRAVEL STOPPER	SS304	Zinc Plated C.S.	1
19	SNAP RING	Nickel Plated C.S.	Nickel Plated C.S.	1
20	ANTI-STATIC SPRINGS	SS301	SS301	2
21	ANTI-STATIC BALLS	SS316	SS316	2
22	SPRING WASHERS	SS304	SS304	SET
23	HANDLE	DUCTILE IRON	DUCTILE IRON	1
24	SET SCREW	SS304	SS304	1

Parts included in the repair kits
* All SS welded ends 316L
** 316SS bolting available, C/F

Dimensions - Full Bore

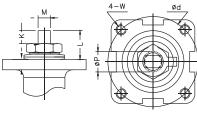


		-		A			-					SL	= CF3M	/316L
SIZE	A NPT	A BW, SW	В	С	C1	D	E1	E2	F1	F2	G	Cv	Torque	Weight Lbs SW
1/4"	2.72	4.81	0.46	2.80	1.54	6.57	0.46	0.56	0.71	1.02	0.39	18	75	2.5
3/8"	2.72	4.81	0.50	2.80	1.54	6.57	0.50	0.69	0.71	1.02	0.39	18	75	2.5
1/2"	2.91	4.89	0.59	2.80	1.54	6.57	0.59	0.85	0.85	1.24	0.39	18	85	3
3/4"	3.39	5.17	0.79	2.95	1.70	6.57	0.79	1.07	1.07	1.52	0.51	42	140	4
1"	3.70	5.24	0.98	3.62	2.06	7.95	0.98	1.33	1.34	1.69	0.51	72	190	5
1 1/4"	4.09	5.72	1.26	3.74	2.19	7.95	1.26	1.67	1.69	2.17	0.51	124	320	9
1 1/2"	4.61	6.19	1.57	4.45	2.65	9.88	1.57	1.91	1.91	2.44	0.51	210	430	12
2"	5.20	6.62	1.97	4.45	2.91	9.88	1.97	2.41	2.38	2.95	0.63	350	560	16
2 1/2"	7.28	8.78	2.56	6.22	3.39	15.5	2.32	2.91	2.87	3.62	0.98	650	950	32
3"	8.74	10.00	2.99	7.13	4.45	15.5	2.99	3.52	3.50	4.29	0.98	950	1200	45
4"	13.50	17.00	3.94	9.41	5.53	22.5	3.82	4.54	4.50	5.31	1.18	1620	2150	62

Mounting Dimensions

SIZE	d	K	L	М	Р	W	ISO
1/4"	1.65	0.28	0.53	0.25	0.47	#10-24UNC	F04
3/8"	1.65	0.28	0.53	0.25	0.47	#10-24UNC	F04
1/2"	1.65	0.28	0.53	0.25	0.47	#10-24UNC	F04
3/4"	1.65	0.28	0.53	0.25	0.47	#10-24UNC	F04
1"	1.97	0.44	0.74	0.315	0.55	1/4-20UNC	F05
1 1/4"	1.97	0.44	0.74	0.315	0.55	1/4-20UNC	F05
1 1/2"	2.76	0.53	0.88	0.374	0.63	5/16-18UNC	F07
2"	2.76	0.53	0.88	0.374	0.63	5/16-18UNC	F07
2 1/2"			C	ONSULT	FACTO	RY	
3"	4.02	1.75	2.76	0.669	1.10	1/2-13UNC	F10
4"	4.92	2.03	2.91	1.024	1.34	1/2-13UNC	F12

IMPORTANT: Mounting Dimensions Are for Estimating Purposes Only. Consult Factory Before Manufacturing

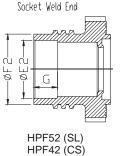


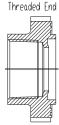
1/4" - 2" Size

C/F for 2 1/2" FP & 3" RP

Tech Bulletin Page 51-22 Page 4 **Model HPF**

Extra Long Butt Weld & Socket Weld Ends Are Also Available, Consult Factory.





HPF51 (SS) HPF41 (CS)

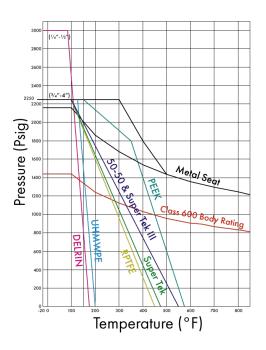
APPLICABLE	STANDARDS				
Body Wall Thickness	ASME B16.34 / 600 & 800				
Basic Dimensions	ASME B16.34				
Testing Standards	ASME B16.34, API598				
NACE (optional)	MR-01-75				

All valves are 100% air tested under water at 80-100 psi. Complies with API-598, BS 6755 Pt. 2.

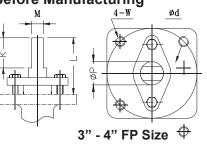


Chart 1 **Pressure Temperature Rating**

If temperature exceeds 500 deg F, consult factory



Body rating in the chart is for CF8M material. Max. WCB body rating is 1480 psi for class 600. Consult factory for Rating higher than 800°F



Disassembly is not Suggested. **Disassembly will VOID** the valve warranty.

Dimensions - Reduced Bore

Technical Submittal

VPT

2.87

3.11

3.62

4.13

4.76

5.90

9.06

13.50

3W. S'

4.85

4.89

5.17

5.72

6.19

8.78

9.57

12.01

0.50 2.80

0.59

0.79

1.26

1.57

1.97

2.56

2.99

2.80

2.95

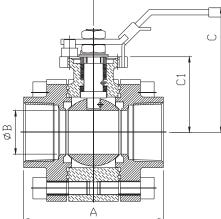
3.74

4.45

4.45 2.91

6.22

7.13



C

1.54

1.54

1.70

2.19 7.95

2.65

3.39

4.45

6.57

6.57

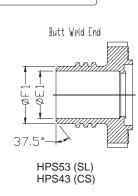
6.57

9.88

9.88

15.5

15.5



SL = CF3M/316L

75

85

140

320

430

580

985

1250

.bs S\

3

4

5

12

16

32

55

85

C۱

18

20

40

120

200

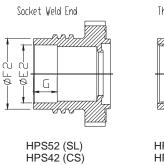
300

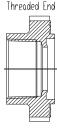
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900

Μ	od	el	HP	S

Extra Long Butt Weld & Socket Weld Ends Are Also Available, Consult Factory.





HPS51 (SS) HPS41 (CS)

APPLICABLE STANDARDS						
Body Wall Thickness	ASME B16.34 / 600 & 800					
Basic Dimensions	ASME B16.34					
Testing Standards	ASME B16.34, API598					
NACE (Optional)	MR-01-75					

All valves 100% air tested under water at 80-100 psi. Complies with API-598, BS 6755 Pt. 2.



Mounting Dimensions

SIZE	d	K	L	М	Р	W	ISO				
1/2"	1.65	0.28	0.53	0.25	0.47	#10-24UNC	F04				
3/4"	1.65	0.28	0.53	0.25	0.47	#10-24UNC	F04				
1"	1.65	0.28	0.53	0.25	0.47	#10-24UNC	F04				
1 1/2"	1.97	0.44	0.74	0.315	0.55	1/4-20UNC	F05				
2"	2.76	0.53	0.88	0.374	0.63	5/16-18UNC	F07				
2 1/2"	2.76	0.53	0.88	0.374	0.63	5/16-18UNC	F07				
3"		CONSULT FACTORY									
4"	4.02	1.75	2.76	0.669	1.10	1/2-13UNC	F10				

E1

0.55

0.74

0.96

1.50

1.94

2.32

2.90

3.94

E2

0.85

1.07

1.33

1.91

2.41

2.91

3.54

4.59

0.84

1.05

1.31

1.90

2.37

2.87

3.50

4.50

F2

1.14

1.38

1.69

2.36 0.51

2.83

3.46

4.18

5.31

0.39

0.51

0.51

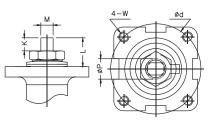
0.63

0.98

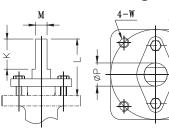
0.98

1.18

IMPORTANT: Mounting Dimensions Are for Estimating Purposes Only. Consult Factory Before Manufacturing



1/4" - 2 1/2" Size

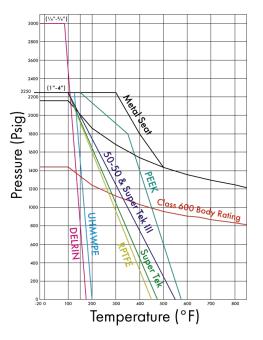


C/F for 3" and 4" Size

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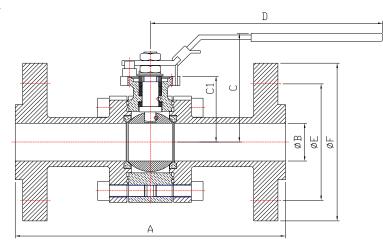
Chart 2 Pressure Temperature Rating

If temperature exceeds 500 deg F, consult factory



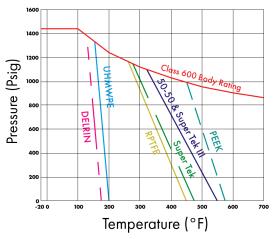
Body rating in the chart is for CF8M material. Max. WCB body rating is 1480 psi for class 600. Consult factory for Rating higher than 800°F

Dimensions - Flanged Class 600 Technical Submittal



SIZE	A	В	С	C1	D	E	F	Cv	Torque in-lb	
1/2"	6.50	0.59	2.80	1.54	6.57	2.62	3.75	18	90	
3/4"	7.50	0.79	2.95	1.70	6.57	3.25	4.62	42	150	
1"	8.50	0.98	3.62	2.06	7.95	3.50	4.88	72	200	
1 1/4"	9.00	1.26	3.74	2.19	7.95	3.88	5.25	124	340	
1 1/2"	9.50	1.57	4.45	2.65	9.88	4.50	6.12	210	450	
2"	11.5	1.97	4.45	2.91	9.88	5.00	6.50	350	590	
2 1/2"	13.0	2.56	6.22	3.39	15.5	5.88	7.50	650	1000	
3"	14.0	2.99	7.13	4.45	15.5	6.62	8.25	950	1260	
4"	17.0	3.94	9.41	5.53	22.5	8.50	10.75	1620	2260	

Pressure Temperature Rating



Body rating in this chart is for CF8M material. Max. WCB body rating is 1480 psi for class 600.

APPLICABLE	E STANDARDS
Body Wall Thickness	ASME B16.34/Class 600 & 800
NPT and SW Ends	ASME B16.11
Butt Weld Ends	ASME B16.25
Basic Dimensions	ASME B16.34
Testing Standards	ASME B16.34, API598
NACE (Optional)	MR-01-75

All valves 100% air tested under water at 80-100 psi. Complies with API-598, BS 6755 Pt. 2.

Valves will be supplied with full cast or weld on flanges

Tri-Pro - Product Identification Code for Full Valve Model Numbers

MODEL	BODY	r	2ND END	2ND END			VALVE - SOFT PARTS						SIZE	
MODEL	MATERI	AL	CONNECTIO	N	SEAT		STEM SEA	٨L	BODY SEA	L	OPERATOR	UILL		
SS - Full Port	316SS	SS	Threaded	1	TFM	F	Graphite	G	Graphite	G	Lever		1/4	8
NPT HPF51 SW HPF52	WCB	CS	Socket Weld	2	CTFM	Y	TFM	F	TFM	F	Locking	L	3/8	10
BW HPF53	Alloy 20	A2	Butt Weld	3	PTFE	т	CTFM	Y	RTFM	Х	Oval	0	1/2	15
FLG HPF56 CS - Full Port	316L	SL	Flanged 150	4	RPTFE	R	PTFE	т	PTFE	Т	Locking	0	3/4	20
NPT HPF41 SW HPF42			Flanged 300	5	50/50	S	RPTFE	R	RPTFE	R	Gear	S	1	25
BW HPF43			Flanged 600	6	UHMWPE	U	50/50	s	50/50	s	Deadman	U	1 1/4	32
SS - Reduced Port NPT HPS51					PEEK	Р	UHMWPE	U	UHMWPE	U	Actuator	G	1 1/2	40
SW HPS52 BW HPS53					Cavity Filled	С					Bare Stem	Ν	2	50
CS - Reduced Port					Metal	М							2 1/2	65
NPT HPS41 SW HPS42													3	80
BW HPS43													4	100

Ordering Examples by Part Numbers

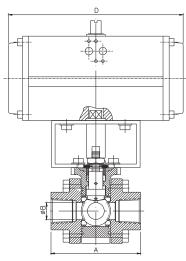
MODEL	BODY MATERIAL	2ND END CONNECTION	SEAT	STEM SEAL	BODY SEAL	OPERATOR	SIZE	SPECIAL FEATURE
NPT END REDUCED PORT CS BODY	WCB	sw	TFM	Graphite	TFM	Lever	2"	Media Containment
HPS41	CS	- 2 -	• F	G	F	- L	- 50	- H3

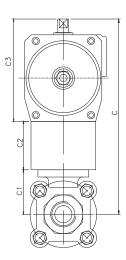
Ball: All ball material is supplied standard as 316SS & 304SS. If a different material is required, please specify as a special feature.

Stem: All stem material is supplied standard as 17-4PH. Please specify as a special feature if SS316 is needed. <u>Special Features</u> are noted at the end of the identification number, please see special feature codes. For extended number, see Tech Bulletin 188-22 in our catalog.

Ordering Information When placing an order or requesting a quotation, please provide as many details on the application as possible, such as media type, temperature, pressure, pipe size, and etc.

Dimensions - Actuation / Flow Data





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Pneumatic Actuator Dimensions shown in this drawing are for full port units based on 80 psi air to actuator, valves with standard seats, clean fluid only at ambient temperatures and pressures not to exceed 1500 psi. Consult factory for additional actuator types and dimensional drawings.



V-ports 15, 30, 60, 90 deg V & custom designs are available.

Tri-Pro in Control Valve Service

Flo-Tite also offers modulating V-port control valves. The V-ball is characterized to meet virtually all flowrequirements. See tech bulletin 120-22.



The Tri-Pro Series can be provided specifi cally for cryogenic applica-tions. All cryogenic ball valves have extended bonnets. They offer excep-tional performance under the most extreme cold work-ing temperature conditions. See tech bulletin 138-19.

3-Way

Diverter

Sizes 1/4" - 2 1/2" available

Double Acting Actuator 80ps Spring Return Actuator 80ps 1.57 4.23 7.34 6.61 3.15 6.26 4.81 2.72 4.81 0.46 1.54 SR063.9 DA040 -2.72 4.81 0.50 1.54 1.57 4.23 6.61 SR063.9 3.15 4.81 -7.34 6.26 DA040 2.91 0.59 1.57 4.23 6.50 4.89 1.54 7.34 6.61 SR063.9 3.15 6.26 4.81 DA040 7.50 3.38 5.17 0.79 1.70 1.57 4.23 7.50 6.61 SR063.12 3.62 6.89 5.79 DA052 3.70 5.24 0.98 2.06 1.57 4.23 6.61 4.23 7.86 6.61 8.50 7.86 SR063.9 DA063 1 1/4" 9.00 4.09 5.72 1.26 2.19 1.57 5.07 8.83 8.03 SR083.12 4.70 8.46 7.24 DA075 9.50 4.61 6.19 1.58 2.65 1.88 5.39 9.92 10.4 SR092.12 5.07 9.60 8.03 DA083 11.5 5.20 6.62 1.97 2.91 1.88 6.02 10.8 10.6 SR105.12 6.02 10.8 10.6 DA105 7.28 2.56 3.39 4.00 6.89 11.7 SR125.12 6.02 10.6 2 1/2" 13.0 8.78 14.3 13.5 DA105 14.0 8.70 10.04 2.99 4.45 4.00 7.54 16.0 15.4 SR140.8 6.89 15.4 11.7 DA125 17.0 9.84 13.00 3.94 5.53 4.00 8.54 20.1 18.1 SR160.9 7.54 19.1 15.4 DA140

All actuators above are generally sized for clean wet service

Torque Factors for Special Applications:

- 1 Increase the breakaway torque by 20% for dry gas service or demineralized water.
- 2 Add 10% for infrequent cycling.
- 3 Add 40% for slurry or light abrasive content.
- 4 Add 60% for metal seated valves, class V shut-off.
- 5 Deduct 10% for high lubricity service.

Torque figures are for valves up to 1500 psi service. For higher pressure applications consult factory. Valve torque can vary due to pressure, media and temperature.

The information provided above should be considered as a guide only and must be adjusted according to experience and judgment.

All Tri-Pro Valves have integrally cast mounting pads, for ease of mounting actuation equipment.

True High Performance Ball Valve Technology

A superior quality, rugged, and universal purpose valve for all fluids. This valve is ideal for saturated or superheated steam, slurries, semi-solids, and corrosive services in endless industrial, chemical, power, gas, paper, and original equipment applications.

Three Piece Design	Offers a wide selection of pipe end connections. Swing out center body allows easy access to internal valve components.
Fully Protected Body Seals	Prevents seal ruptures in high pressure or steam applications.
Live-Loaded Blow-Out Proof Bottom Entry System	Self adjusts with pressure and temperature fluctuations. Blow-out proof bottom entry stem, antistatic grounds help prevent accidents and injuries.
Secure Body Bolting	Cap screws - fully encapsulated secure end caps to tapped center body. Insuring ease of foolproof body assembly every time. Also protects bolts from outside environment.
Integral Actuator Mounting Pad	Ideal for actuation, ISO-5211 bolting, actuators may be retrofitted without disturbing the pipeline. Allows for secondary containment unit to be added when necessary.
Captured Seats	Pocketed and recessed seats with secondary metal backup seal, meeting API607-7. Super-TEK TFM, S-TEK 50/50, metal seats and more.
Weld-in-Place	Heat sink construction allows in place welding, prevents damage to soft seat rings and eliminates the need to disassemble valve for welding. Assures safe & cost effective installation.
High-Strength Stem	Parallel flat stem head for positive ball position indication. High strength 17-4 PH stainless steel is provided as standard.
Lockable-Safety Handle	Prevents valves from being opened or closed accidently. Lock-out meets OSHA standards with locking device.

MATERIAL IDENTIFICATION



Flo-Tite's marking system follows MSS SP-25-1998 guidelines. In addition to the casted body information, all valves have metal nameplates that identify all valve soft parts. Valve users worldwide will be able to contact Flo-Tite quickly for any installation or service requirements as the company website address will be on all valves.



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Tri-Pro with Media Containment Units



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Due to continuous development & improvement of our product range, we reserve the right to alter the dimensions and technical data included in this brochure.