

VALVE CONFIGURATION ORDERING INFORMATION (Valves without O-Rings)

Number(s) in parentheses indicate valve configuration part number position
IMI PBM part numbers can have up to 20 alpha-numeric characters

Part Number Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
Part Number Code Example	S	P	H	L	E	5	Q	-	G	-	-	-	3	4	A	-	Y	X	X	X

INDUSTRIAL VALVES

PRODUCT (1-2)	MATERIAL(2) (3-4)	SIZE (5)	SERIES (6)	END CONNECTION(3) (7-8)	SEAT & SEAL/FILLERS(4) (9)
CN Cryogenic (ANSI) CD Cryogenic 3-way CP Cryogenic DP Diverter Port FT Flush Tank MP Multi-Port SP Industrial 2-way AF Angle Stem Valves (1" thru 4")	A- Aluminum C- Hastelloy® C-276 C1 Hastelloy® B2 D- Ductile Iron(5) E- Carbon Steel(5) G- Lead Free Bronze 316/316L Stainless RF flange only H- Alloy 20 HC 316L Stainless H2 317L Stainless I- Inconel® 600 M- Monel 400 N- 922 Bronze P- AL6XN R- 955 NiAl-Bronze S- 953 Al-Bronze T- Gr. 5 Titanium T2 Gr. 2 Titanium T7 Gr. 7 Titanium W- Nickel 200 X- 958 NiAl-Bronze Z- 70/30 CuNi 1- 90/10 CuNi 5- Inconel® 625 9- 954 Al-Bronze 25 254SMO®6Mo 22 Duplex 2205 76 Super Duplex 32760 For other materials, Consult Factory	A 1/4 B 3/8 C 1/2 D 3/4 E 1 F 1-1/4 G 1-1/2 H 2 J 2-1/2 K 3 L 4 M 6	1 Series 1 5 Series 5 6 Series 6	B- Ext. Sch 40 butt weld D- Ext. Sch 10 butt weld J- Ext. socket weld L- 150# Flange M- 300# Flange P- Male NPT Q- Female NPT Q1 BSPT S- Sil-braze1 groove (pipe) T- Solder joint (tube) U- Socket weld (pipe) -Z No end fittings For other end fittings, Consult Factory	A(7) RT B(7) RT C(7) VT D(7) VT F(6) Metal G TF H HT I HT J TF K UT L UT M UT N(7) PK P(7) PK Q(6) CG Y CT

Column 8 options

3	Non Adjust-O-Seal®
4	Reduced port
5	Non Adjust-O-Seal® & Reduced port
7	Flat-faced flanges
9	Bar-stock

SEAT/SEAL/MATERIAL CODES

CG	Carbon-Graphite
HT	S-TEF®
CT	C-TEF™
PK	PEEK
RT	RTEF
TF	V-TEF™
VT	VTFE
UT	UHMWPE
F	Metal Seats

CURRENT PRODUCT SERIES

1	AF (1" thru 4"), Bronze DP, Bronze MP, Bronze SP, Ductile Iron MP
5	DP, FT, Stainless MP (150# Class), SP, TI
6	CN, CP (Fire-safe API-607), CD (Fire-safe design)

SANITARY VALVES

PRODUCT (1-2)	MATERIAL(2) (3-4)	SIZE (5)	SERIES (6)	END CONNECTION(3) (7-8)	SEAT & SEAL/FILLERS (4) (9)
DI Diverter Port FI Flush Tank MI Multi-Port SI Sanitary 2-way AF Angle Stem Valves (1" thru 4")	C- Hastelloy® C-276 HC Alloy 20 HL 316L Stainless HF F316L Forged H2 317L Stainless I- Inconel® 600 P- AL6XN T- Gr. 5 Titanium T2 Gr. 2 Titanium T7 Gr. 7 Titanium Y- Hastelloy® C-22® 5- Inconel® 625 25 254SMO®6Mo 22 Duplex 2205 76 Super Duplex 32760 For other materials, Consult Factory	A 1/4 B 3/8 C 1/2 D 3/4 E 1 F 1-1/4 G 1-1/2 H 2 J 2-1/2 K 3 L 4 M 6	1 Series 1 5 Series 5 8 Series 8 9 Series 9	F- Ext tube butt weld G- Female CBI H- Male CBI SM Compression X- Hygienic Clamp Z- No end fittings For other end fittings, Consult Factory	C(7) VT D(7) VT G TF H HT I HT J TF K UT L UT M UT N(7) PK P(7) PK

Column 8 options

3	Non Adjust-O-Seal®
9	Bar-stock

SEAT/SEAL/MATERIAL CODES

HT	S-TEF®
PK	PEEK
TF	V-TEF™
VT	VTFE
UT	UHMWPE

CURRENT PRODUCT SERIES

1	AF (1" thru 4")
5	Stainless MI (150# Class)
8 & 9	DI, FI, SI

(2) For valves with 2 different materials, use the 1st position for body material and the 2nd position for end fitting material. (3) - For valves with 2 different end connections, use both end codes - e.g., -FX = extended butt weld for tube by clamp. (4) - For standard seat/seal material by series, please see appropriate pricing page. (5) - All Carbon Steel valves may be coated internally and externally with a rust inhibitor. Information on the rust inhibitor and/or an MSDS is available upon request. In addition, Carbon steel cast products are painted (black in color) externally prior to coating. (6) Requires 17-4PH stem; (7) only for AF, DP, SP, and MP Series 1 valves

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Part Number Code Example	S	P	H	L	E	5	Q	-	G	-	-	-	3	4	A	-	Y	X	X	X

INDUSTRIAL AND SANITARY VALVES

FLOW PATTERN/TANK PAD/PURGE OPTIONS (10 & 11)		BALL / STEM OPTIONS (12)		OPERATOR OPTIONS (13 & 14)		POLISH OPTIONS (15)	
● DIVERTER PORT AND MULTI-PORT VALVES FOR DIVERTER AND MULTI-PORT VALVES, USE POSITION 10 & 11 TO INDICATE THE FLOW PATTERN - SEE PAGE 8 FOR COMMON FLOW PATTERNS		- Standard (316/316L ball & stem) F Internal / external grounding G 17-4PH stem I Monel ball J 932 Bronze ball K Monel stem & followers L Monel ball, stem & followers M Aluminum ball N 922 Bronze ball O Hastelloy C-276 ball P C-276 ball, stem & followers Q 922 Bronze ball w/Monel stem R Monel stem, followers & bolting S Monel ball, stem, followers & bolting T 922 Bronze ball, Monel stem & followers, Silicon Bronze bolting & CuSi fasteners U 922 Bronze ball w/Monel stem & followers V 12" extended stem/body bonnet (cryo only) 1 Chrome carbide (ball & seat coating) 2 Tungsten carbide (ball & seat coating)		- w/handle 00 Stainless locking oval hand wheel(a) 02 w/o handles, w/stem actr prep 03 w/handle, w/stem actr prep 04 Locking lever handle 05 w/stainless oval hand wheel(a) 07 w/45° handle 08 w/gear operator 09 w/T-handle 10 w/manual spring return handle(b) 11 w/fusible link SR handle (165°F)© 12 w/vane actr for 80psig 13 w/GP electric actuator 14 w/XP electric actuator 17/19 w/ext lockable oval hand wheel (a) 18/16 w/ext lockable lever handle 71/16 w/ext lockable lever handle - Sanitary(a) 72/19 w/ext lockable oval hand wheel - Sanitary (a)		- Standard polish A 20Ra ID (Series 8 std polish) B 32Ra OD C 20Ra ID / 32Ra OD D 15Ra ID E 10Ra ID F 20Ra ID after EP G 15Ra ID after EP H 10Ra ID after EP I 5Ra ID K 5Ra ID / 32Ra OD L 20Ra ID / 32Ra OD / EP M EP ID N 10 Ra ID / 32Ra OD O 15Ra ID / 32Ra OD / EP Q 15Ra ID / 32Ra OD S 10Ra ID / 32Ra OD / EP	
- - Standard flush tank weld pad 02 Less tank weld pad but with plastic or wood shipping pad							
05 w/1" bolt-on tank pad 06 w/1-1/2" bolt-on tank pad 07 w/2" bolt-on tank pad 08 w/3" bolt-on tank pad 09 w/4" bolt-on tank pad 10 w/6" bolt-on tank pad 11 w/8" bolt-on tank pad							
●● PURGE PORT OPTIONS (●●POSITION 10 ONLY●●)							
- No purge option(s) selected¹ A (1) 1/2" clamp on center 90° from stem B (1) 1/2" clamp on center opposite stem C (1) 1/2" clamp upstream 90° from stem D (1) 1/2" clamp downstream opposite stem E (2) 1/2" clamp (1) on center 90° from stem & (1) opposite stem F (2) 1/2" clamp (1) upstream 90° from stem & (1) downstream opposite stem G (1) 1/2" BWTE on center 90° from stem H (1) 1/2" BWTE on center opposite stem I (1) 1/2" BWTE upstream 90° from stem J (1) 1/2" BWTE downstream opposite stem K (2) 1/2" BWTE on center (1) 90° from stem & (1) opposite stem L (2) 1/2" BWTE upstream 90° from stem & (1) downstream opposite stem M (1) 1/4" FNPT on center 90° from stem N (1) 1/4" FNPT on center opposite stem O (1) 1/4" FNPT upstream 90° from stem P (1) 1/4" FNPT downstream opposite stem Q (2) 1/4" FNPT on center 90° from stem & (1) opposite stem R (2) 1/4" FNPT (1) upstream 90° from stem & (1) downstream opposite stem		24vdc 24vdc 24vdc IMI PBM, Asco & Westlock combo 55 DA80 psig actr & GP Sol 56 DA80 psig actr & GP LS & Sol 57 DA80 psig actr & XP Sol 58 DA80 psig actr & XP LS & Sol 59 DA60 psig actr & GP Sol 60 DA60 psig actr & GP LS & Sol 61 DA60 psig actr & XP Sol 62 DA60 psig actr & XP LS & Sol 63 SR80 psig actr & GP Sol 64 SR80 psig actr & GP LS & Sol 65 SR80 psig actr & XP Sol 66 SR80 psig actr & XP LS & Sol 67 SR60 psig actr & GP Sol 68 SR60 psig actr & GP LS Sol 69 SR60 psig actr & XP Sol 70 SR60 psig actr & XP LS & Sol Standard Asco solenoids (12vac & 24vdc) GP - WT8551A001MS XP - EF8551A001MS - solenoids are not wired to position monitors Standard Westlock position monitors GP - 2004NBY2A2M0200 XP - 2007NBY2B2M0200 Standard TopWorx position monitors GP/XP - TXP-M21GNEM Standard TopWorx prox. position monitor GP/XP - TXP-P21GNEM		120vac 120vac 120vac IMI PBM, Asco & Westlock combo 20 DA80 psig actr 21 DA80 psig actr & GP LS 22 DA80 psig actr & GP Sol 23 DA80 psig actr & GP LS & Sol 24 DA80 psig actr & XP LS 25 DA80 psig actr & XP Sol 26 DA80 psig actr & XP LS & Sol 27 DA60 psig actr 28 DA60 psig actr & GP LS 29 DA60 psig actr & GP Sol 30 DA60 psig actr & GP LS & Sol 31 DA60 psig actr & XP LS 32 DA60 psig actr & XP Sol 33 DA60 psig actr & XP LS & Sol 34 SR80 psig actr 35 SR80 psig actr & GP LS 36 SR80 psig actr & GP Sol 37 SR80 psig actr & GP LS & Sol 38 SR80 psig actr & XP LS 39 SR80 psig actr & XP Sol 40 SR80 psig actr & XP LS & Sol 41 SR60 psig actr 42 SR60 psig actr & GP LS 43 SR60 psig actr & GP Sol 44 SR60 psig actr & GP LS & Sol 45 SR60 psig actr & XP LS 46 SR60 psig actr & XP Sol 47 SR60 psig actr & XP LS & Sol 51(d) DA80 psig actr & position indicator 52(d) DA60 psig actr & position indicator 53(d) SR80 psig actr & position indicator 54(d) SR60 psig actr & position indicator IMI PBM, Asco & Topworx combo - 120vac 73 DA80 psig actr & XP LS 74 DA80 psig actr, XP LS+GP Sol 75 DA80 psig actr, XP LS+XP Sol 76 DA60 psig actr & XP LS 77 DA60 psig actr & XP LS+GP Sol 78 DA60 psig actr & XP LS+XP Sol 79 SR80 psig actr & XP LS 80 SR80 psig actr, XP LS+GP Sol 81 SR80 psig actr, XP LS+XP Sol 82 SR60 psig actr & XP LS 83 SR60 psig actr & XP LS+GP Sol 84 SR60 psig actr & XP LS+XP Sol 85 DA80 psig actr & XP Prox 86 DA80 actr, XP Prox+XP Sol 87 DA60 psig actr & XP Prox 88 DA60 actr, XP Prox+XP Sol 89 SR80 psig actr & XP Prox 90 SR80 actr, XP Prox+XP Sol 91 SR60 psig actr & XP Prox 92 SR60 actr, XP Prox+XP Sol			
- No lox option(s) selected¹ A (1) 1/2" clamp on center 90° from stem B (1) 1/2" clamp on center opposite stem C (1) 1/2" clamp upstream 90° from stem D (1) 1/2" clamp downstream opposite stem E (2) 1/2" clamp (1) on center 90° from stem & (1) opposite stem F (2) 1/2" clamp (1) upstream 90° from stem & (1) downstream opposite stem G (1) 1/2" BWTE on center 90° from stem H (1) 1/2" BWTE on center opposite stem I (1) 1/2" BWTE upstream 90° from stem J (1) 1/2" BWTE downstream opposite stem K (2) 1/2" BWTE on center (1) 90° from stem & (1) opposite stem L (2) 1/2" BWTE upstream 90° from stem & (1) downstream opposite stem M (1) 1/4" FNPT on center 90° from stem N (1) 1/4" FNPT on center opposite stem O (1) 1/4" FNPT upstream 90° from stem P (1) 1/4" FNPT downstream opposite stem Q (2) 1/4" FNPT on center 90° from stem & (1) opposite stem R (2) 1/4" FNPT (1) upstream 90° from stem & (1) downstream opposite stem						LOX & BOLTING OPTIONS (16) - No option(s) required L LOX cleaning per IMI PBM procedure M LOX & CRN bolting Z CRN bolting	
●● SPECIAL ENGINEERING# (17 - 20)						Special engineering number columns - consult PBM Example: YXXX suffix at end of standard IMI PBM part number	
- No ball options selected position A Flats in closed downstream position B Flats in closed upstream position C Flats in open upstream position D Flats in open downstream position E Flats in open upstream & downstream position F Holes in closed downstream position G Holes in closed upstream position K Ball with vent hole (downstream) L Ball with (2) crown flats V Standard width slotted ball W 30° V-ball X 45° V-ball Y 60° V-ball 7 Self-flush ball with flats closed downstream 8 Self-flushing ball 9 Ball with vent hole (upstream)						AUTOMATION NOTES (a) for 2" and smaller valves (b) for 1-1/2" and smaller valves (c) for 3" and smaller valves (d) consult IMI PBM for beacon indicators	
ABBREVIATION INDEX GP = General Purpose XP = Explosion Proof LS = Limit Switch Sol = Solenoid - N/C DA = Double Acting SR = Spring Return - FCW							
Polish Notes ●On ID polished valves, the body, ball, seat retainer (if applicable) and end fittings are polished ●On ID/OD polished valves, the body, ball, seat retainer (if applicable) and end fittings are polished ●On ID+EP polished valves, the body, ball, seat retainer (if applicable) and end fittings are polished (Stem is EP'd)							